PRINTING EQUIPMENT ENGINEER

MAY • 1933

● A Technical Publication for Mechanical Executives Responsible for Printing Production, Equipment and Supplies

IDEAL VOCORE PROCESS ROLLERS

A PROGRESSIVE STEP IN DEVELOPMENT

THE one-hundredth anniversary of the incorporation of the city of Chicago is being fittingly celebrated by A Century of Progress Exposition. On history's pages are recorded the remarkable growth and achievements of the city since its birth.

A generous share in this growth and development has been contributed by the printing industry. And a recent noteworthy contribution to this industry is the Ideal Vocore Process Rollers. These rollers represent a practical, revolutionary idea in construction and are recognized by master printers as a distinct improvement in roller equipment for small and medium-sized plants. Their adoption assures utmost economy.

Vocore rollers are composed of a specially constructed base, over which is applied a surface of gelatin composition. These rollers will not melt, shrink or expand and are not affected by climatic conditions.

A set of Vocore rollers will assure clean, even ink distribution in producing the finest quality of presswork and will give generous service before the surface shows signs of wear. They can be quickly and inexpensively recoated with a fresh, clean tacky surface. Specially equipped stations for recoating are listed below.

We invite printers who are not familiar with this modern roller equipment to have an Ideal Roller engineer demonstrate the numerous advantages of these moderately priced Ideal Vocore Rollers.

IDEAL ROLLER & MANUFACTURING COMPANY

2512 West 24th St., Chicago **22nd St. and 39th Ave., Long Island City, New York**

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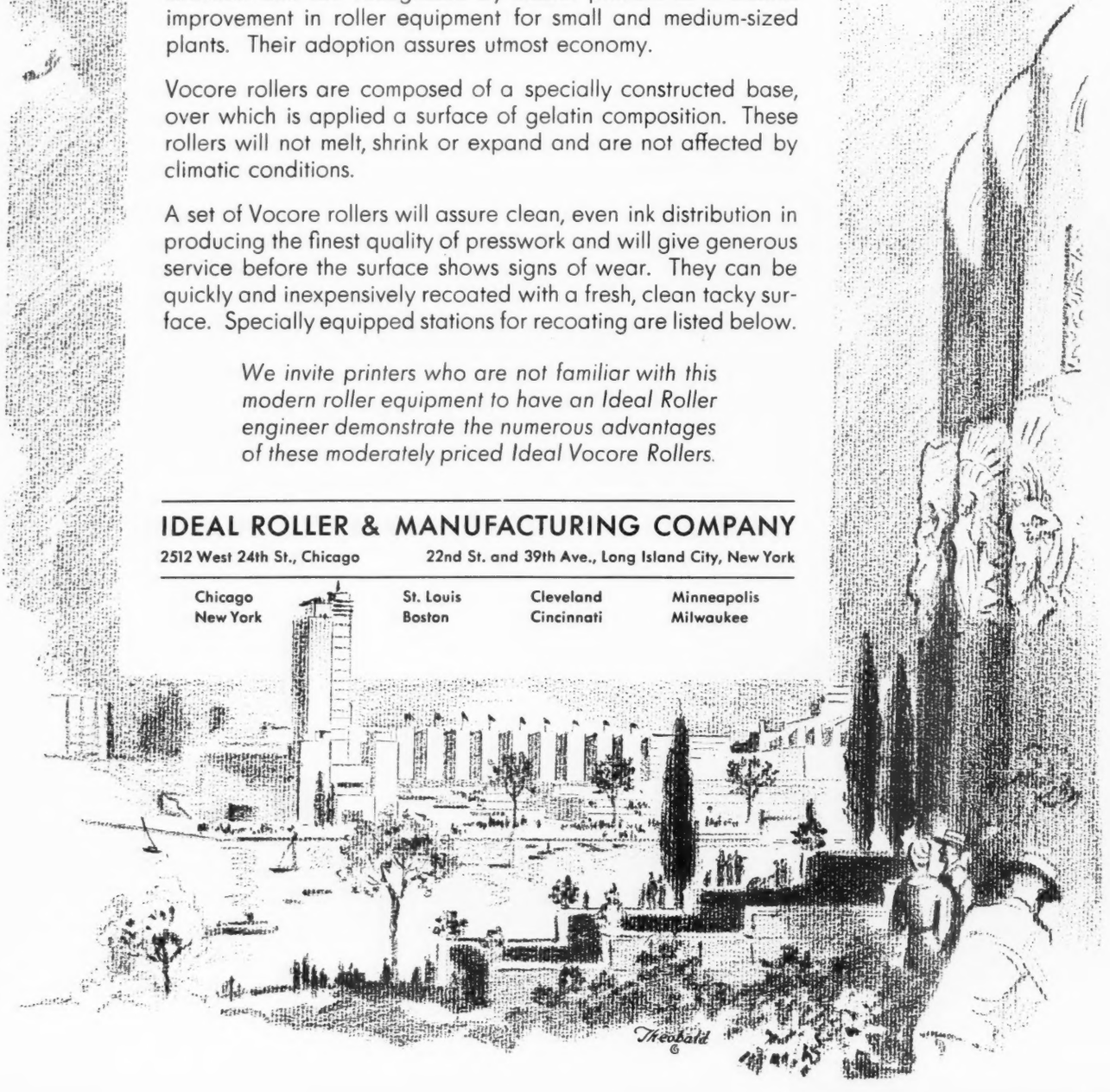
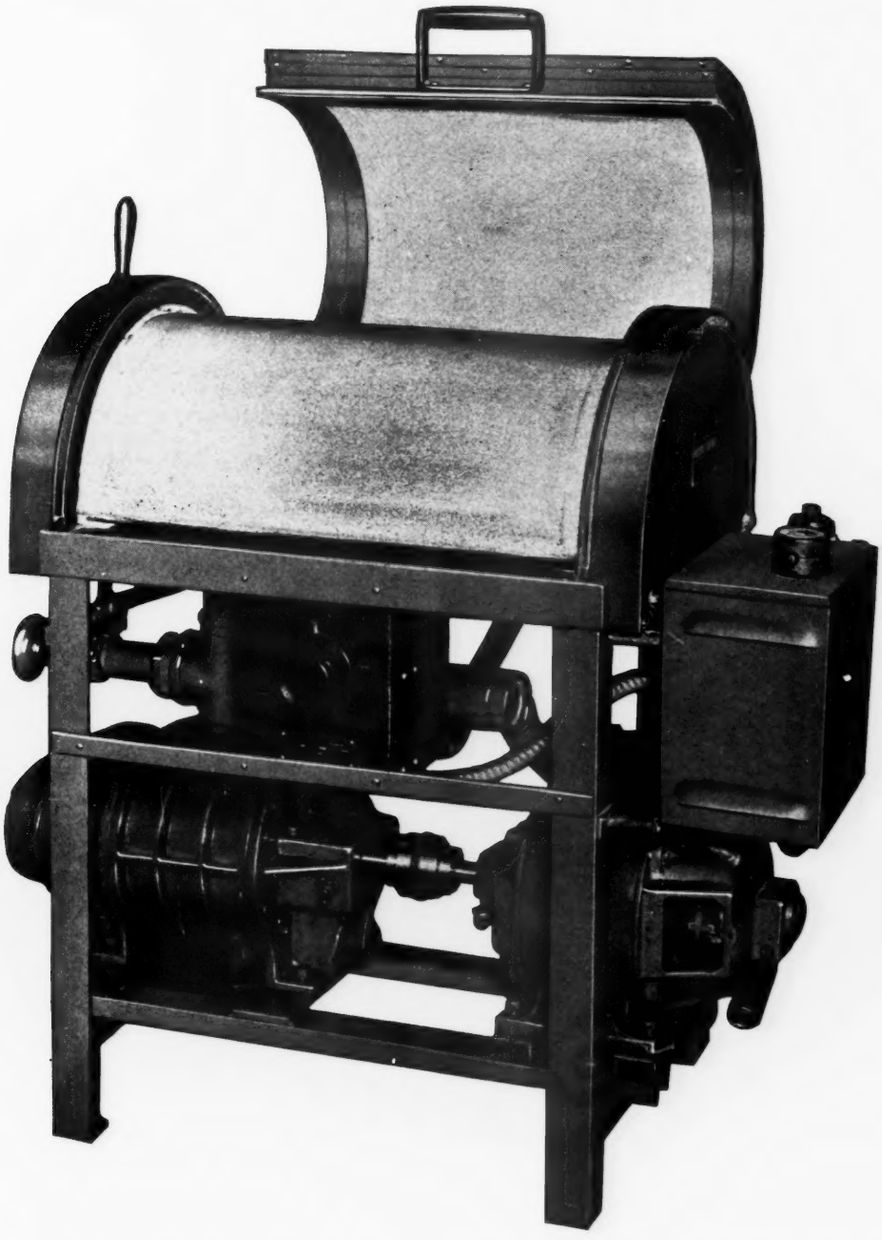


THE CHRISTIAN SCIENCE MONITOR

ENJOYS THE ADVANTAGES OF STAHI MACHINERY



The Stahi Dual-Heat Former as pictured above, from a photograph in the plant of THE CHRISTIAN SCIENCE MONITOR, has been in constant operation since January 1931. The master craftsmen of this great printing plant selected STAHI for its value in providing Uniform Casting and Printing Levels. How well this has been done is demonstrated in every edition of this International Daily Newspaper. -- To raise your printing to STAHI Standards -- is to economize also on production costs. Write us.

STAHI NEWSPAPER SUPPLY COMPANY, Inc.

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for May, 1933

Monotype
Photo Mechanical Equipments

For Offset and Gravure Printing

Exclusively Licensed Under All Wm. C. Huebner, Huebner-Bleistein, and Directoplate Corporation Patents

Active Numbers 1,170,157; 1,182,487; 1,195,225; 1,201,048; 1,216,318; 1,222,766; 1,225,729; 1,277,429; 1,291,897; 1,300,729; 1,334,759; 1,377,249; 1,377,250; 1,391,116; 1,391,117; 1,396,962; 1,413,406; 1,414,280; 1,417,749; 1,425,526; 1,431,664; 1,452,077; 1,452,078; 1,468,022; 1,482,562; 1,496,638; 1,510,007; 1,513,321; 1,521,633; 1,556,845; 1,576,511; 1,639,738; 1,647,360; 1,668,592; 1,675,492; 1,675,493; 1,682,845; 1,702,232; 1,703,449; 1,715,712; 1,729,600; 1,736,914; 1,780,191; 1,780,677; 1,780,678; 1,795,653; 1,809,274; 1,828,739; 1,832,026; 1,839,230; 1,846,972; 1,847,010; 1,855,356; 1,857,381; 1,860,361; 1,860,389; 1,865,262; 1,870,008; Re 16,567.

Lanston Monotype Machine Company has acquired exclusive licenses for manufacture and sale of Direct-Plate Photo Mechanical Equipments under all patents of Wm. C. Huebner, the Huebner-Bleistein Patents Company and the Directoplate Corporation.

These equipments will include machines, devices and supplies for planographic and process black and color reproduction. Under the direction of Wm. C. Huebner, Technical Engineering Counsel, service will be maintained for printers, lithographers and trade-service plate makers in selecting, installing and operating equipment best suited to meet the requirements of each purchaser.

Items from Directoplate inventory, including Composing Machines, Proof Presses, Whirlers, Cameras, etc., are offered for prompt delivery.

Lanston Monotype Machine Company

Monotype Building, Twenty-fourth and Locust Streets, Philadelphia, Pennsylvania

Trade Marks—Monotype, Huebner, H-B, Directoplate

Composed in Monotype Garamont, No. 248; Display in Monotype Goudy Text, No. 327.

PRINTING EQUIPMENT ENGINEER

TRADE-MARK REGISTERED U. S. PATENT OFFICE. ESTABLISHED 1910.

VOLUME 46
MAY, 1933
NUMBER 2

DON WILL, Publisher

MacD. SINCLAIR, Editor

A TECHNICAL MAGAZINE FOR PRINTING'S MECHANICAL EXECUTIVES

This Issue Contains:

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Let others also read The Engineer

After you have read this copy, pass this magazine along to the other men in your organization. They will undoubtedly get helpful ideas form its pages.

Check in left column after reading. Note articles of interest.

☐ *Composing Room Superintendent*

☐ *Superintendent Press Room*

☐ *Chief Composing Room Machinist*

☐ *Superintendent Stereotype Foundry*

☐ *Monotype Department*

☐ *Photo Engraving Department*

☐ *Superintendent Electrotype Department*

☐ *Foreman Lithographing Department*

☐ *Bindery Foreman*

☐ *Production Manager*

☐ *Mechanical Superintendent*

☐ *Manager*

☐ *Purchasing Agent*

PUBLISHED MONTHLY AT
1370 Ontario Street • CLEVELAND, OHIO

CCA
Member Controlled Circulation Audit

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Let Main Street Burn Up!

Don't Call the Fire Department ....We'll Rebuild It Tomorrow!

FLYING sparks . . . a gust of wind . . . a roof bursts into flame. Then another roof. Soon the whole street blazes. Exciting to watch, perhaps, but rebuilding runs into money.

So no real estate owner will shout: "Don't call the fire department . . . we'll rebuilt it tomorrow!" His first thought, naturally, will be to sound the alarm.

Neither should the owner of any business let preventable waste add to his costs. Yet, in the average composing room, the equivalent of one galley in every seventeen is, because of errors, thrown into the hell box!

A national survey shows that in every 100 lines of original machine composition six (**6%**) are reset because of errors — one in every seventeen is burned up. Assuming that only double time is necessary to correct, **12%** (2×6%) of an operator's time is devoted to setting corrections. Hence, in the average composing room, **18%** (6%+12%) of all operator-hours are spent in producing and correcting the lines which contain errors.

With the floor men's time in the placing of correction lines added to the waste in machine hours, composing rooms not only are "letting Main Street burn up," but clearing away the debris and *rebuilding* it as well.

But an alarm can be sounded. Fire wagons will come . . . by having your present matrices treated with the Black and White process — *which makes reference characters plainly visible in the assembler* — an appreciable proportion of error waste can be prevented.

This isn't just guess-work with us. We *guarantee* a 25% reduction in all errors in original composition and *prove this saving* before you pay us a cent.

Matrix Contrast Corporation

Empire State Building New York, N. Y.

(Sole licensees of the Percy L. Hill Black and White Patent No. 1466437, held valid by U. S. District Court, Eastern District of New York. Infringers will be vigorously prosecuted.

PRINTING EQUIPMENT ENGINEER
MAY, 1933

The Composition Roller as I Know It

By W. W. HITCHNER*

ROLLER composition was discovered in England in 1808 and replaced buckskin for the contact surface of ink-balls. Balls made of kid, sheepskin, buckskin, and chamois leather filled with horsehair had been handed down from the original inventors of printing. But none of the manufacturers of these ink-balls had cared to improve or replace them with a better material, it seems. The cylindrical roller of composition was used first at Cambridge, England, in 1816. Composition rollers were introduced in France in 1820; in Germany in 1823; and in the United States in 1826, the first user being Daniel Fanshaw of New York City, printer for the American Bible Societies.

The greatest benefit derived by the introduction of composition was its adaptability to the various machines invented for printing. Its spread was rapid and effective, and made possible the development of high-speed presses and good presswork.

The earliest rollers of modern type were made principally from glue and molasses. I am told that these glue and molasses rollers when fresh and new were excellent, but, while apparently very cheap they were really expensive as they were not durable, being at their best for only a few days.

The principal difference between the old glue and molasses roller and the rollers of today was the discovery of the value of glycerine which greatly increased their durability. Glue and molasses rollers dried and shrunk rapidly, but this tendency was overcome by the substitution of glycerine for molasses.

The principal ingredients of roller composition today are glue and glycerine, and each must measure up to certain tests before they are accepted by the reputable roller maker for the manufacture of roller composition. Glycerine must be free from acid or alkali. Glue must come up to certain standards of viscosity and tensile strength. Any foreign matter in either of these materials or a poor quality of either would be disastrous to the composition.

Good composition rollers produce clean-cut presswork and save time in make-ready, as they will distribute ink perfectly even over parts of the form that may be a trifle low, which makes additional underlaying unnecessary.

Composition rollers that are poor in quality are expensive regardless of how cheap they can be purchased, as such rollers produce mottled and lifeless impressions. If the rollers are hard, with little suction, excessive impression is necessary, which is often the cause of such troubles as wearing of plates, driving of plate hooks, packings slipping and wrinkled sheets. They are a real handicap to the pressroom that is endeavoring to produce high-grade printing.

Soft, pliable composition rollers are necessary for fine halftone and process color printing. They keep the form clean, produce clear high lights and good solids. They eliminate roller streaks, reduce the wear and tear on the form and press and lessen the make-ready time.

In three and four-color process printing, soft, pliable composition rollers do away with the excessive squeeze necessary for printing the dots of the screen in the plates properly in order to match the engraver's progressive proofs. Many a finished color job has been rejected due to not matching the proofs. Quite often this is caused by the use of hard rollers. They do not ink up the dots in the halftone plates properly with the result that the dots do not print as large as the pro-

*Superintendent of Pressroom Production, The Robt. O. Law Company, Chicago, Ill.

gressive proofs. This defect, multiplied in each of the four colors, produces a very unsatisfactory piece of printing by comparison to the progressive proofs.

Special roller fans should be part of the equipment of every cylinder press using composition rollers. These fans are inexpensive, easily attached and are worth their weight in gold, especially so during the hot, humid summer days. Roller fans are connected direct to the cylinder of the press itself on the gear side and prevent the rollers from heating up when the press is operated at high speed. The quality of the work produced during the summer months is much improved when fans are used.

Quite often rollers are blamed for much they are not responsible for. On cylinder presses sometimes the roller sockets are badly worn which does not allow for the smooth and even revolving of the rollers, or, possibly the sockets have not been properly set. Worn sockets are one of the main causes of rollers splitting. Another very important feature which the writer would like to add emphasis to and one that is often neglected by pressmen and pressroom executives, is the proper care and setting of the inking plate on the cylinder press. When the press is new we have the ideal condition for the setting of the rollers. The inking plate of the press should be set the same height as the bearers on the bed, which on the Miehle press measure 0.9167 in. It is when the presses have been in service for several years that the ink plates need periodical inspection. Most cylinder pressmen know that due to lack of rigidity of an ink plate at the fountain end they can not be stood on without causing serious damage by sinking down, usually at the extreme corners. Feeders and even pressmen will often stand on the ink plate to move some part without thinking of the damage they may be doing. When an ink plate has been damaged in this manner it will be found necessary to set the rollers down much harder than is customary in an attempt to ink up the low spots. Naturally, with such abuse, rollers will not last long and the printed result will be inferior.

The writer recalls one large pressroom where this evil had existed for some time and better than two-thirds of the ink plates on the presses had to be sent to the press manufacturer for repairs, costing the firm hundreds of dollars. After these ink plates had been repaired and properly adjusted on the press, the quality of all work done was vastly improved and the roller bill for the following year was cut nearly fifty per cent.

Humidity and temperature are very important factors in the satisfactory working of good rollers. Mechanical regulation of humidity and temperature in the pressroom will greatly prolong the life of composition rollers.

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INTERDEPARTMENTAL COORDINATION

[An Editorial]

Strange as it may seem, the lack of interdepartmental non-cooperation (intentional or not) has long been a source of irritation and expense in many newspaper plants. It is a costly thing. It is often taken for granted and little is done to remedy conditions which would ease off the making of editions at minimum expense. The mechanical equipment and man power in the plant are intended to get out the paper, to be sure, but too often the flexing ability of both in the matter of economical production are strained by the absence of coordination between departments.

It is pleasing to note that on the A. N. P. A. Mechanical Department Conference program this year considerable attention will be devoted to the economies which may be obtained from proper coordination of the mechanical departments and the departments which furnish the copy, *i. e.*, the editorial departments and the departments which have to do with the production of news illustrations. Two of the country's well-known mechanical executives have been assigned to speak.

This highly important topic is of peculiar interest to mechanical executives inasmuch as many of them contend that costs which are reflected in the monthly charts are frequently amplified by conditions over which they have no control.

In these days when the demand for retrenchment has reached a high-water mark, many mechanical executives might be considered as holding positions which are not the most pleasant, to say the least. It is one thing to have experienced supervision over a plant when production has been on the upgrade for a considerable period of time, and it is quite another sensation when it becomes necessary to "whittle down" plant personnel in addition to shutting down perfectly good productive machinery. Executive ability functions spontaneously at capacity speeds but real genius is required for efficient administration at fractional plant output.

One of the earnest endeavors on the part of the mechanical executive should be to investigate thoroughly his methods and practices in regard to production with the end in view of discovering substitute methods which will be reflected favorably in operating costs. In the final analysis, though, just because a new method may appear to produce results somewhat cheaper than the one in use, it does not always follow that the old method should be discarded. Hence, the necessity for alert investigation and an open mind.

No one executive has a corner on brains. Here and there mechanical executives have conquered perplexing problems. It is just possible that attendance at the Conference will bring out the solution of some problem which might be unsolvable to you. On the other hand, you might be in a position to pass on information which will help another executive.

Imposing Structure Houses Modern Plant

of The Christian Science Publishing Society in Boston—Special Flooring Materials and Air Conditioning System Installed

By EDWARD H. PRESTON*

THE new building for The Christian Science Publishing Society in Boston, Massachusetts, is nearing completion. Today workmen are busily engaged in moving mechanical equipment from the present Publishing House across the street through a spacious tunnel connecting the old and new buildings.

The new edifice, which is being erected at a cost of about $4,000,000 covers an area of about 81,000 square feet, said to be greater than that occupied by any other office building in New England. But aside from that it is unique because it is said to be the only building of its kind known in which a daily newspaper and weekly, monthly, and quarterly periodicals as well as religious writings, are published.

These publications include: *The Christian Science Monitor, The Christian Science Journal, Christian Science Sentinel, Christian Science Quarterly and The Herald of Christian Science* published in French, German, Dutch and Scandinavian editions each with alternate pages in English.

AREA OF BUILDING

The new building is bounded by Norway, Falmouth, Dalton and Clearway Streets and Massachusetts Avenue. It has a floor area of about 329,000 square feet which is 2½ times that occupied by the present Publishing House and its annexes and 55 times the space required 30 years ago. Its corps of about 700 workers handle in some way or other about 25 tons of mail which is sent out each week day to approximately 109 countries. The individual advertisers in the columns of the *Monitor* now have reached about 22,000.

The engineers are Lockwood Greene Engineers, Inc., of New York and Boston, while the construction managers are the Aberthaw Company of Boston.

The edifice really comprises two buildings of different types of construction. The western end, known as section "A," is built of structural steel and will house the business offices of the Publishing Society. It rises to a level of four floors in common with the rest of the building and then rises as a tower with gradual set backs for five more stories over which there is a two-story pent house.

The remainder of the building, section "B," is four floors high, will contain for the most part the mechanical departments and is of reinforced concrete construction. The entire edifice is faced with super-buff Indiana limestone which so blends the two sections that it is imperceptible where one ends and the other begins.

PRODUCTION DEPARTMENTS

The production departments of the *Monitor* will be located entirely on the first and second floors of section "B." Starting at the News Room, copy will be sent through a special tube system from the copy editor's desk to the copy cutter's desk in the composing room adjoining.

THE COMPOSING ROOM

This room will contain 22 news composing machines while space is being provided for 12 new machines as expansion in the work demands it. In the "advertising end" of the room, near the photo-engraving department, will be located seven composing machines with space for five additional ones later.

As copy enters the composing room from the news room and from the advertising offices to the advertising machines, it is set up in type and the pages are made up. Convenient to the make-up tables will be two matrix rolling machines from which the moulded mats will drop through a chute to the stereotype room on the floor below. The make-up tables and type cabinets are being built on a "clear view" idea with no obstructions above the working surfaces. The *Monitor* proof room is partitioned off from the composing room and has independent heating and ventilating.

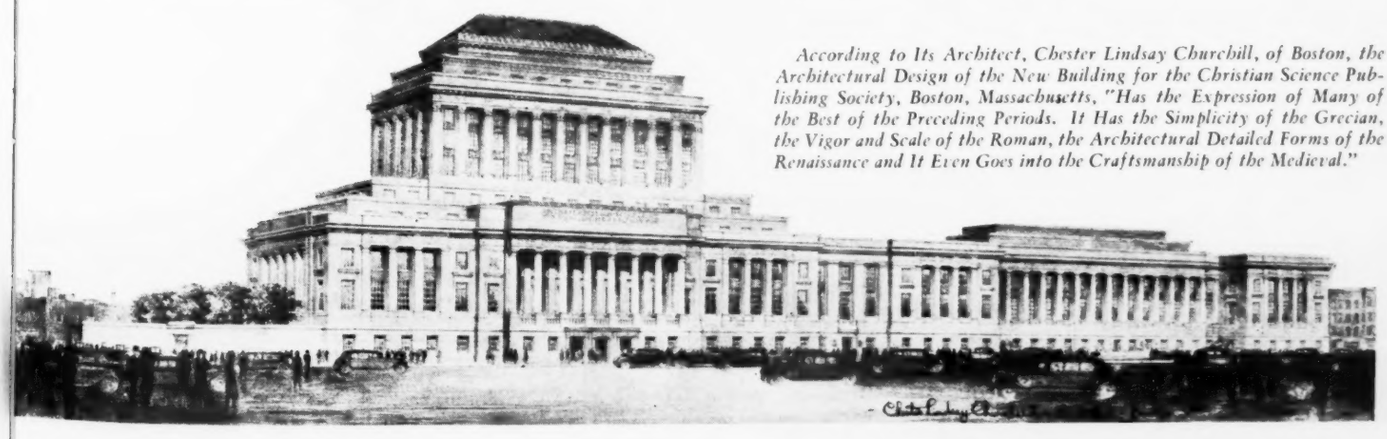
THE ENGRAVING ROOM

In the photo-engraving department, the latest improved electrical equipment is being installed in the line of cameras and etching machines. These will include a Powers Camera and Powers Etcher.

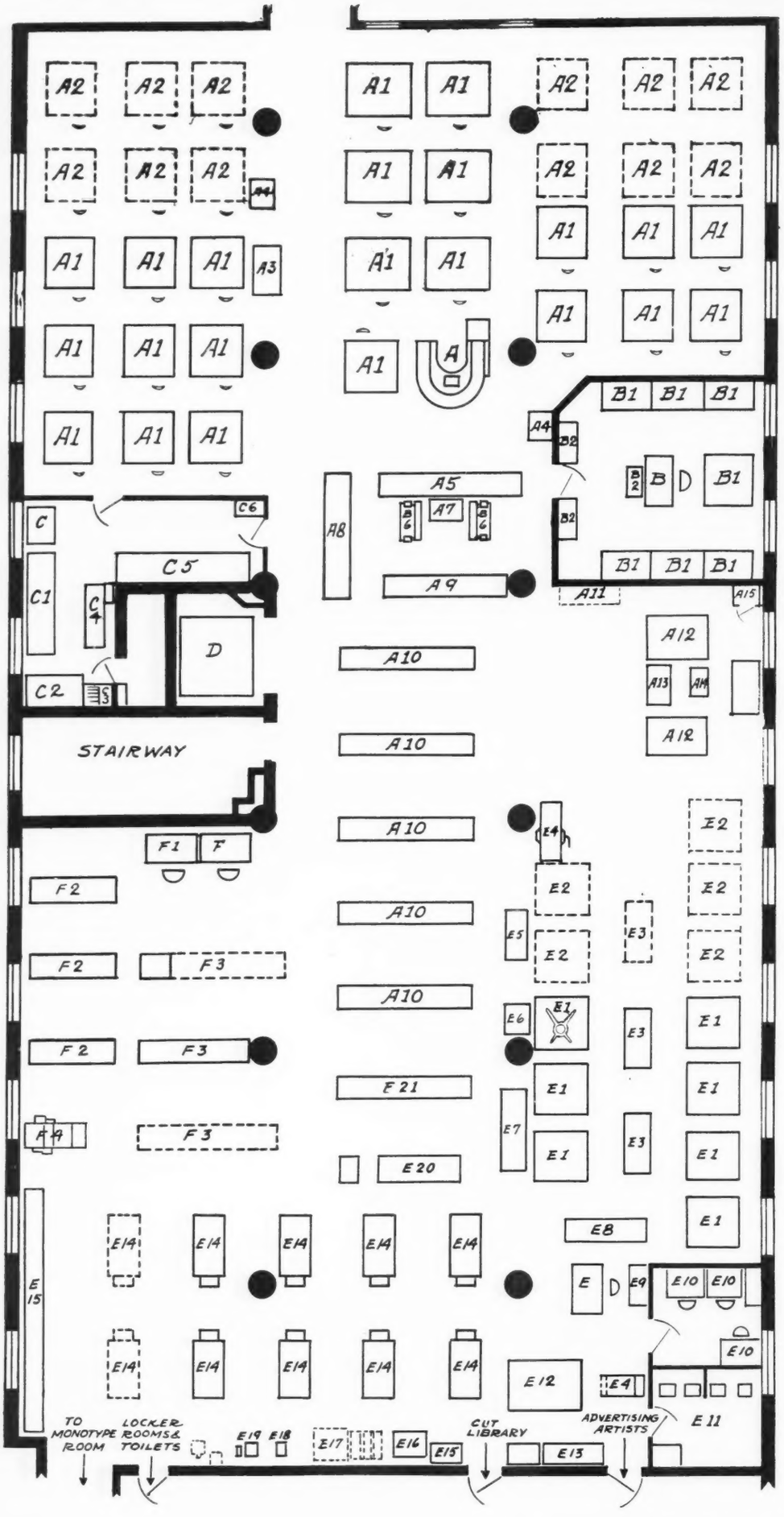
THE STEREOTYPE ROOM

The stereotype room is equipped with Wood Automatic Autoplate machines with a delivery capacity of eight plates per minute. These plates will be delivered to the press room on the same floor by a gravity roll conveyor.

*The Christian Science Publishing Society, Boston, Massachusetts.



According to Its Architect, Chester Lindsay Churchill, of Boston, the Architectural Design of the New Building for the Christian Science Publishing Society, Boston, Massachusetts, "Has the Expression of Many of the Best of the Preceding Periods. It Has the Simplicity of the Grecian, the Vigor and Scale of the Roman, the Architectural Detailed Forms of the Renaissance and It Even Goes into the Craftsmanship of the Medieval."



Key to Diagram of The Christian Science Monitor Composing Room

A

NEWS SECTION

- *A* Copy Cutter's Desk
- *A 1* News machines (22); 20 Linotypes, 2 Intertypes.
- *A 2* Futures (12)
- *A 3* Machinist Sub Benches (2)
- *A 4* Magazine Racks (2)
- *A 5* News Bank
- *A 6* Proof Press (2)
- *A 7* Galley Table
- *A 8* Correction Bank
- *A 9* Live News Bank
- *A10* Make-up Tables (5)
- *A11* Proof Paper Storage
- *A12* Matrix Roller (2)
- *A13* Hot Plate
- *A14* Hand Press
- *A15* Telephone

B

PROOF ROOM

- *B* Head Reader's Desk
- *B 1* Reader's Desk (8)
- *B 2* Proof Cabinets (3)

C

MACHINIST'S ROOM

- *C* Desk
- *C 1* Machinist's Bench
- *C 2* Machine Parts Storage
- *C 3* Sink
- *C 4* Lathe
- *C 5* Matrix Storage
- *C 6* Accent Matrix Storage
- *C 7* Duct Shaft
- *D* Elevator

E

ADVERTISING ROOM

- *E* Foreman's Desk
- *E 1* Advertising Machines (7)
- *E 2* Futures (5)
- *E 3* Receiving Tables (3)
- *E 4* Proof Press
- *E 5* Machinist's Sub Bench
- *E 6* Magazine Rack
- *E 7* Advertising Dump
- *E 8* Advertising Storage
- *E 9* Tube Station
- *E10* Advertising Layout Desks (3)
- *E11* Advertising Proof Readers
- *E12* Advertising Table
- *E13* Galley Storage
- *E14* Type Cabinets (10)
- *E15* Type Storage Cabinet
- *E16* Miller Saw
- *E17* Power Proof Press
- *E18* C. & G. Saw
- *E19* Rouse Mitering Machine
- *E20* Sorts Cabinet
- *E21* Advertising Dump

F

CLASSIFIED FEATURES

- *F* Superintendent's Desk
- *F 1* Make-up Editor's Desk
- *F 2* Galley Storage (3)
- *F 3* Feature Make-up Table
- *F 4* Proof Press

NEWSPAPER PRESSROOM

The newspaper press room contains one line of 12 units of Goss presses with spaces for 12 more units as the need comes. The *Monitors* as delivered from these presses will be carried by newspaper conveyors to the mailing room adjoining. There is also a large paper storage area with room to store sufficient stock to last many months. This paper comes from the mills in Maine and the air in the store room is specially humidified to maintain the moisture content of the paper as it is received from the mills. A Bowser ink supply system will be used for the *Monitor* presses; the ink being delivered by a tank wagon and taken in from the street level.

PERIODICAL EQUIPMENT

Copy for periodicals other than the *Monitor* is sent from the editorial rooms on the sixth floor of section "A" through the tube delivery system to the general composing room. This room is complete in itself with three Linotype machines and other equipment, and here is set the type for all publications excepting the *Monitor*. The plate casting department is next to the composing room on the third floor of section "B" where stereotype plates are made for both rotary and flat bed presses.

NEW HOE MAGAZINE PRESSES

For installation at an early date in the periodical press room two new super-production magazine presses with three folders for the printing of the *Christian Science Sentinel* and *The Christian Science Journal* have been purchased from R. Hoe & Company, Inc., New York City.

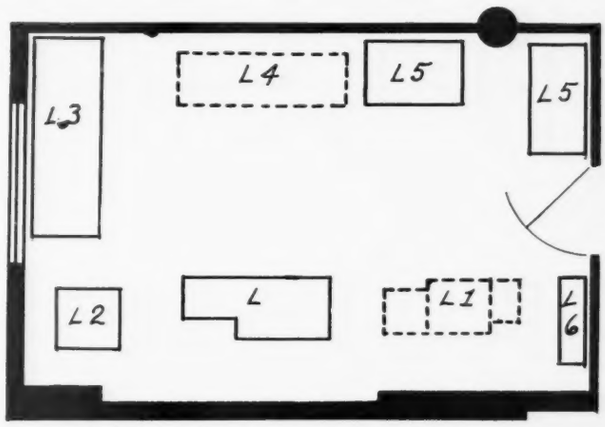
When producing the *Sentinel* the cover as well as the text will be printed simultaneously and the whole magazine will be delivered complete, wire stapled and ready for mailing. The *Journal* will be produced in signatures of from eight to forty pages in a great variety of combinations.

The two presses are interconnected, making it possible to operate them as one complete press or as two separate machines, thereby making a very flexible installation and permitting a great versatility in the products.

Many improved features are embodied in the design of these presses, such as steel press frames, steel printing cylinders carried in self-aligning bearings, automatic tension devices, self-aligning tension rollers, two-speed paper feed mechanisms, remote side register control, paper roll hoists, helical spur gears and spiral bevel gears, anti-friction bearings practically throughout the presses, impression throw-off mechanisms, etc.

The inking mechanisms are carried in movable carriages locked in position by improved quick locking up devices. They embody improved ink fountains, overrunning clutches for the operation of the fountain rollers, vibrating mechanisms operated by crankshafts, mechanisms for the adjusting of the dwell of the ductor rollers while running, ball bearing inking rollers throughout, new method for setting form rollers, safety cranks for hand inking, etc. The angle bars are provided with compressed air to eliminate smutting, have individual drag rollers for each ribbon, embody improved nip and tuck mechanisms, a new improved type of packer boxes and the last word in wire stitcher design.

Signatures of the *Journals* and *Heralds* are sent by truck to the periodical bindery on the floor above where they are



CASTER ROOM

L	Monotype Material Maker	*L 4*	Elrod Material Maker
L 1	Giant Caster	*L 5*	Type Storage (2)
L 2	Thompson Caster	*L 6*	Material Storage
L 3	Monotype Bench		

stitched and covered. From there they will go to the mailing room on the first floor.

MAILING EQUIPMENT

This room will be equipped with six newspaper mailing machines each with a capacity of folding, wrapping and addressing about 10,000 papers an hour. In addition, there will be two *Sentinel* automailing machines, capable of folding, fully wrapping and addressing about 6,000 copies an hour. One automailing machine, will fold, fully wrap and address about 4,000 *Monitors* an hour for foreign shipment, while a flat wrap machine will fully wrap and address about 2,100 *Journals* and *Heralds* an hour.

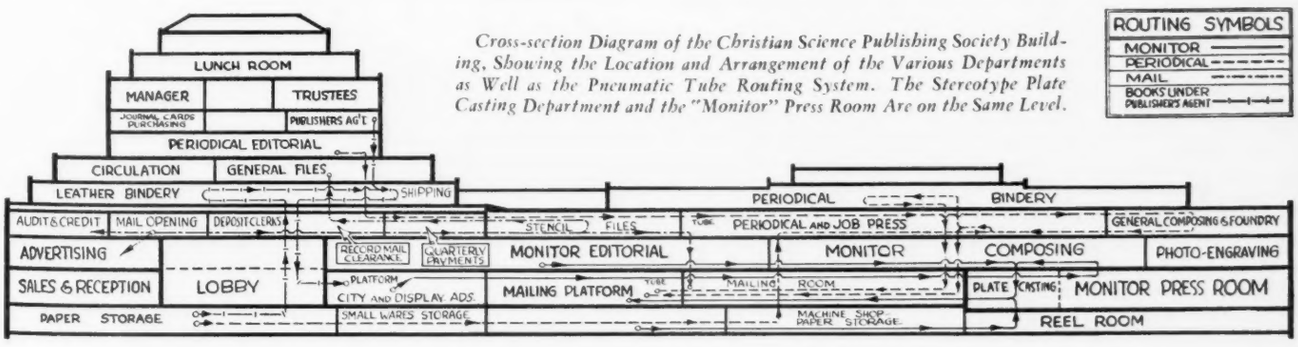
These periodicals drop from their respective mailing machines into their proper mail sacks which are then carried on a belt under the wrapping tables in the center of the room to the mailing platform. There they are placed in trucks, weighed and taken directly to the trains. About 2,500 of these sacks are used each day.

The mailing platform is 80 feet long and will have a series of tracks for roll-off bodies from the delivery trucks. *Monitors* for local delivery are counted in the mailing room and put in their proper places in steel cubicles through which they are taken by the newsboys in the adjoining room.

PNEUMATIC TUBE DELIVERY

A most complete system of pneumatic tube delivery is being installed. This is necessary as the building is 600 feet long and from 75 to 110 feet wide. There will be 14 tube

Continued on page 16



Cross-section Diagram of the Christian Science Publishing Society Building, Showing the Location and Arrangement of the Various Departments as Well as the Pneumatic Tube Routing System. The Stereotype Plate Casting Department and the "Monitor" Press Room Are on the Same Level.

Activities of the A. N. P. A. Mechanical Department

Enumerated by the Manager—Further Details of the Pittsburgh Conference Given in Annual Report

THE annual report of W. E. Wines, manager of the Mechanical Department of the American Newspaper Publishers' Association was submitted to the convention of that body in New York City during the week of April 24.

The first part of the report consisted of advance information on the forthcoming conference to be held at William Penn Hotel in Pittsburgh, June 6, 7 and 8. Preliminary details about the conference appeared in the April ENGINEER.

It is stated in the report that the mechanical committee has adopted a new policy toward manufacturers' representatives which is to be the same as that prevailing for many years at the annual April meeting of the publishers. The exhibitors and their representatives, while not permitted to sit in the sessions, may attend the hotel at which the convention and exhibit are being held.

The Annual Report of Walter E. Wines, Manager of the Mechanical Department, Is Submitted to the A.N.P.A. Convention in New York City.

WORK AT THE G. P. O.

The manager states: "In connection with the work at the Government Printing Office, which has now been discontinued, a meeting of paper and ink manufacturers was held at the Government Printing Office on October 12 (1932). The purpose of this meeting was to give the ink and paper men an opportunity to discuss with the publishers' representatives the accumulated data published in the annual reports and to impress upon the manufacturers that we need and desire their whole-hearted and intelligent cooperation in raising the standard of newspaper printing. The results of such a conference are necessarily largely intangible and cannot, therefore, be measured, but we are convinced that the results accomplished were worth the effort. This opinion is supported by the fact that several of the ink and paper companies have suggested that another such meeting should be held.

NEWSPRINT WASTE

"There has been no outstanding development in this field during the year. Monthly reports are regularly received from over 150 offices and bulletins are issued quarterly. These show that the percentage figures are slowly but steadily decreasing. The money value of this saving is enormous.

"In addition to the percentage figures, the waste bulletins usually carry some explanatory or informative reading matter, practically all of which is supplied by member offices.

Meet Carl W. Jones, Publisher of the Minneapolis (Minn.) "Tribune," Who Will Discuss Some of the Problems Incidental to Color Printing in the Daily Newspaper.

ADVERTISING STEREOTYPES

"A questionnaire to the membership on the use, by advertising agencies and national advertisers, of flat stereotypes instead of electros or mats brought forth the information that newspapers are almost unanimously opposed to the use of stereotypes for this purpose. This was evidently a matter of sufficient importance to merit the attention of the American Association of Advertising Agencies. The result has been that the A.A.A.A. issued a bulletin to its members discouraging the use of stereos and the Association of National Advertisers took similar action.

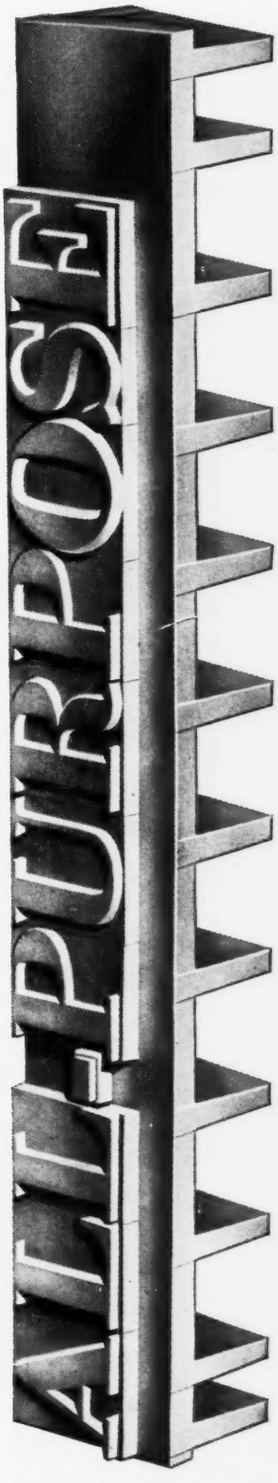
This Is Oliver Owen Kuhn, Managing Editor, Washington (D. C.) "Star," Who Will Discuss Cooperation Between the Editorial and Mechanical Departments in the Making of a Newspaper.

Continued on page 20

THE ALL-PURPOSE

TRADE **LINOTYPE** MARK

Big type on Linotype slugs.



COMPLETE SIZE RANGE

5 POINT **up to 144**

MERGENTHALER LINOTYPE COMPANY, BROOKLYN, NEW YORK

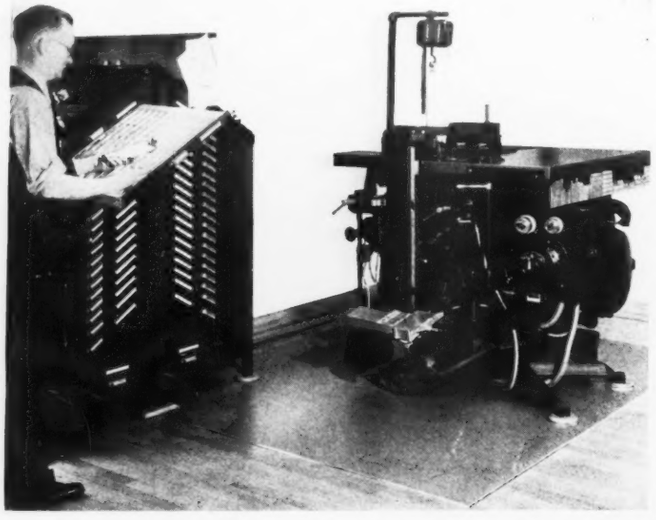
THIS ADVERTISEMENT IS SET ENTIRELY ON THE A-P-L, FROM THE 144-POINT INITIAL TO THIS 5-POINT CREDIT LINE

All-Purpose Linotype Has Wide Type Face Range

Substantially the Casting Mechanism of the 42-pica Machine— Capacity Ranges from 5-point Up to and Including 144-point

THE All-Purpose Linotype which is designed to cast a wide range of type faces upon slug units has been announced by the Mergenthaler Linotype Co. Its capacity ranges from 5-pt. up to and including 144-pt. faces. In addition to casting large and small type faces, the All-Purpose Linotype casts rules, borders, decorative, spacing and cut-mounting material and furniture on slugs up to and including 72-pt. body and 42 picas in length.

The All-Purpose Linotype, it is stated by a Mergenthaler official, incorporates substantially the casting mechanism of the Forty-two Pica Linotype, in which have been embodied



The Operator Sets Lines by Hand from Matrix Cabinets Located Near the All-Purpose Linotype. The Matrix Lines Are then Transferred to the Machine to be Cast on Slug Units.

many new mechanical and typographical features, to adapt it to the production of all forms of printing material. Matrices are hand set. The casting procedure is automatic.

All A-P-L faces align at the bottom and cast that way on the slug. An 18-pt. cap "H," for example, when cast in the same line with a cap "H" of a larger size, aligns at the bottom. When casting lines of mixed sizes, a dial is set to agree with the largest size matrix in the line, and all other sizes line up automatically. This does not, however, prevent casting any size face on its own body and alignment.

Type faces 18 point to 144 point are cast from rectangular-shaped matrices set by hand from cases and assembled in a stick held in the left hand, the same as a regular composing stick. A movement of a slide transfers the matrices from the stick to the casting position, the line is cast, trimmed, cooled and delivered to the galley, and the matrices are returned to the transfer point for distribution by hand to the case.

The unit of measure for the slug is 42 picas. It may be in the form of a recessed slug of any body up to 72 point, or faces may be cast on a base slug of 12 point or larger (overhanging from either edge as desired), the extension to be supported by underpinning or spacing material in the form.

STANDARD LINOTYPE MATRICES MAY BE USED

In addition to the variety of faces available on the All-Purpose Linotype with universal alignment type of matrix, any face available in the form of standard Linotype matrices may be cast on the machine.

HOW THE CASTING MECHANISM WORKS

The stick containing an assembled line of matrices is pushed against the delivery shuttle, which automatically frees the matrices in the stick. The operator slides the shuttle over to the first elevator and pulls a handle which starts the casting mechanism.

The disk carries four molds, is water cooled, and molds of various types may be removed and replaced readily.

The ejecting mechanism has been designed to permit the ejection of a 72-point slug, 42 picas long, with minimum strain to the machine.

The molds are fitted with a special guide which assures the delivery of a slug to the galley in perfect order, with the knives or guides wide open and not trimming. This guide also holds the slug parallel with the side knives when trimming and results in a product that is accurate and true to body.

TYPE FACE SURFACER

An automatic mechanism (optional equipment) surfaces the face of the slug while it still is in the mold. The surfacing of the face and the trimming of the base of the slug are done simultaneously.

For most requirements, trimming the foot of the slug and surfacing the face produce satisfactory printing conditions.

Different Sizes of Type Faces May be Cast on Slug Units with Universal Letter Alignment at the Bottom Regardless of Point Size.

Where extremely accurate slug bodies are essential the Linotype knife block is applied (optional equipment).

SLUG COOLING ATTACHMENT

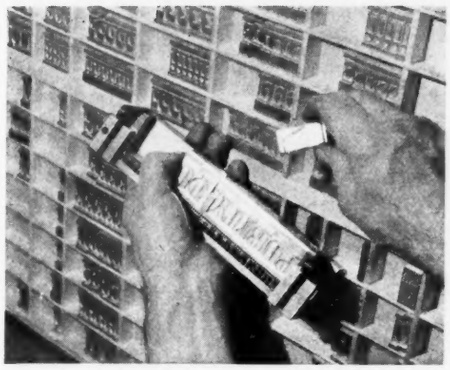
The slugs come out upon an inclined galley through a water-cooling mechanism (optional equipment) which sufficiently cools even the largest slug to permit immediate handling without discomfort.

CONVENIENT SLUG SAW

A special saw (optional equipment) is mounted on the rear of the machine table. It is driven by a separate motor and carries several desirable improvements.

LOOSE TYPE CAN BE CAST

In addition to producing display composition up to 144 point on slugs, these slug units may be separated into single type units to be stored in type cases. For casting type, the



Assembling Matrices from a Case of the All-Purpose Linotype Matrix Cabinet.

42 pica stick is filled with alphabet characters spaced the width of the saw cut so that they may be readily sawed apart. The line is recast until a sufficient quantity is produced, and the individual letters are separated.

BASE AND SPACING MATERIAL

Base and spacing material can be cast automatically in units 7 in. long and any body size up to 72 points. The material is standard base height, for 11 point plates (base 0.765 in. high) and strong enough to withstand maximum pressure under stereotyping. It can be cut to labor saving lengths, and otherwise manipulated as any standard material. Since it is cast from standard Linotype metal, it does not have to be separated from regular Linotype material in breaking up forms for remelting.

A metal feeder may be applied to the All-Purpose Linotype.

MACHINE TOP CONVENIENT WORK TABLE

The machine carries a flat cast-iron table-top, 21¾ in. x 43 in., which provides convenient working space for handling the finished product. The top is 43 in. from the floor.

A storage rack (optional equipment) for storing a generous supply of blanking and base material for makeup purposes, is hung below the top of the machine.

RECASTING TIMING MECHANISM

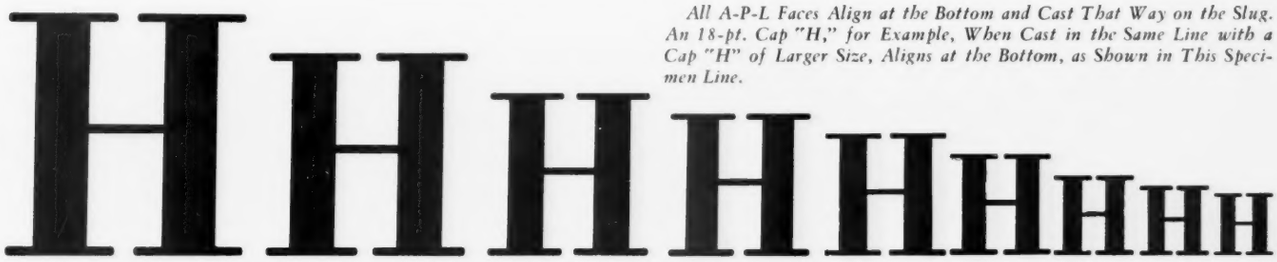
For added efficiency in recasting, an automatic arrangement (optional equipment) has been provided to keep the machine in continuous operation, with a pre-set speed control, ranging from one cast in two minutes to the full speed of the machine. This leaves the operator free for other work while the machine automatically casts base or spacing material. The mechanism is simple in construction and easy to manipulate, operating automatically after it is set to a pre-determined speed, according to the size of slug or base material to be cast.

CABINETS FOR A-P-L MATRICES

Matrix cabinets for the All-Purpose Linotype have been specially designed with a view to conserving floor space and at the same time providing accessibility and convenience. Each cabinet accommodates twenty standard type cases, each of which has ample capacity for a full font of matrices up to 72 point, including points, regular and superior figures, spaces, and all characters usually required in display composition.

The type cases pull from the side, either right or left. A feature of the matrix cabinet is a copy holder which slides into the cabinet out of the way when not in use. It will accommodate the general run of advertising and job copy and hold it so it can be followed easily.

All A-P-L Faces Align at the Bottom and Cast That Way on the Slug. An 18-pt. Cap "H," for Example, When Cast in the Same Line with a Cap "H" of Larger Size, Aligns at the Bottom, as Shown in This Specimen Line.



Francis Wayland Ayer Cup Award for 1933

On April 13 the New York *Times* was awarded the Francis Wayland Ayer Cup for typographical superiority in the Third Exhibition of Newspaper Typography, in which 1386 dailies were entered. Nine awards were made by a jury sitting in Philadelphia which was composed of Fred W. Kennedy, director of the Journalism Laboratories, University of Washington, Seattle, and manager of the Washington Press Association; Marlen Pew, editor of *Editor and Publisher*, and Fred Fuller Shedd, editor of the Philadelphia *Evening Bulletin* and past president of the American Society of Newspaper Editors.

Among newspapers of 50,000 and more circulation, with 141 entries, first honorable mention went to the *Times;* second honorable mention to the New York *Herald-Tribune*, and third honorable mention to the Cleveland *Press*.

First prize for newspapers up to 10,000 circulation, with a total of 888 entries, went to the Chambersburg (Pa.) *Public Opinion*, and first prize to dailies of from 10,000 to 50,000 circulation, with 357 entries went to the Rockford (Ill.) *Register-Republic*.

The papers, 1386 in number, represented approximately 73% of the 1882 publications which had been invited to compete in the exhibition. Each entry was examined by the jury members and rated on typography, makeup and press work.

All of the 1386 papers in the exhibition were editions of March 4, so that all carried the news of inauguration day and of the bank holiday. Beginning May 1, the newspapers will be put on public exhibition for one month in the Ayer Galleries, Philadelphia.

American Type Founders' Organization Notes

Harry W. Alexander has been made general sales manager and assistant to president American Type Founders with headquarters at Jersey City, N. J. He will be in charge of all branch operations and all domestic and foreign sales.

James A. Coleman was elected secretary of the American Type Founders Company, by the board of directors at a meeting held April 25.

Clinton F. Hicks, Chicago manager of American Type Founders Company will also take over the management of the Milwaukee branch. Sam Greenfield, for some years manager at Milwaukee, has been assigned to administrative duties of the general sales department with activities in the mid-west.

The Adcut Department of the American Type Founders Company has been merged with two other departments doing similar work, all of which are now under the management of M. F. Benton.

The Christian Science Monitor and Wood Dry Mats

IN 1930, *The Christian Science Monitor* gave Wood Dry Mats an opportunity to prove their merit in the *Monitor's* modern plant. This opportunity was greatly appreciated.

This outstanding newspaper has continued to use Wood Dry Mats. Their merits must have been demonstrated.

WOOD
FLONG CORPORATION
HOOSICK FALLS, N.Y.

Imposing Structure Houses Modern Plant

(Continued from page 11)

stations beside the main receiving and distributing room to be located in the mail opening department on the third floor of section "A." Tubes will be four inches by seven inches or large enough to enclose several of the inter-department paper folders now in use. In addition, a special tube will connect the news room copy desk with the copy cutter's desk in the composing room.

AIR CONDITIONING EQUIPMENT

Practically the entire new building has been equipped with air conditioning apparatus by the Carrier Engineering Corporation of Newark, N. J. Although no equipment for cooling the building in summer will be provided at present, the system is so constructed that refrigerating apparatus can be installed at any time if desired.

In the office section what are known as "weather masters" are located under each window. These are concealed steam radiators over which the conditioned air from a central plant passes. The conditioned air enters the weather masters in such a way as to induce recirculation of the air in the room, and the heated air then passes vertically through a grill in the window sill in such a way as to avoid drafts and enable workers to sit next to the windows.

Large rooms will contain special ventilating systems including central ducts. The heating system will be divided into sections or zones and the temperature of the air throughout the entire building may be observed and regulated from a central control room. A cooling system for drinking water is being installed, the water passing through a central refrigerating unit and then flowing to bubblers throughout the building.

ELECTRIC AND STEAM POWER

Electricity will be supplied by the Edison Electric Illuminating Company at 13,800 volts and transformed at the substation in the basement of the new building to a working voltage of 208 for power and 120 for lighting. This will be alternating current instead of direct current used in the present building. The Edison Company also furnishes steam for heating the building, for which it extended its steam lines an additional 1 4/5 miles.

SOUND ABSORBING CEILINGS FOR CERTAIN DEPARTMENTS

Another feature of the new building will be the use of sound absorbing materials on the ceilings of certain departments to reduce noise. Such acoustical treatment will be used in the *Monitor* news room, *Monitor* composing room, mailing room, bindery, stencil cutting room as well as some of the larger areas where typewriters and accounting machines will be employed.

VARIETY OF FLOOR MATERIALS USED

The floors of the new building will represent a variety of different types of construction. Some will be rubber, others mastic tile, terrazzo, marble and granolithic while in some places, wood will be used. That to be laid in some of the mechanical departments is comparatively new and is known as "laminated wood." Its finish resembles that of a bowling alley. It is made up of alternate strips ¼ and 3/32 in. thick; the thicker strips have end grain at the wearing surface while the grain of the alternate thin strips runs lengthwise.

This flooring is laid in long lengths, which previously have been placed in a cylinder where, under steam pressure, the entire wood has been saturated with wax. Not only is this floor said to wear excellently, but is remarkably low-priced considering its method of manufacture and the quality of the product.

TUNNEL CONNECTS BUILDINGS

Connecting the new building with the present Publishing House is a spacious tunnel under Norway Street about 10

THE CHRISTIAN SCIENCE PUBLISHING SOCIETY

Will Install In Its Splendid
New Building

TWO NEW HOE SUPER-PRODUCTION MAGAZINE PRESSES

INCORPORATING THE FOLLOWING OUTSTANDING FEATURES:

Steel Press Frames . . . Anti-Friction Bearings . . . Forged Steel Printing Cylinders in SKF Self-Aligning Roller Bearings . . . Automatic Tension Devices . . . Self-Aligning Tension Rollers . . . Helical and Spiral Gears . . . Ball-Bearing Inking Rollers Throughout . . . Folder Air Bars . . . World's Fastest Wire Stitcher, Etc.

This, in conjunction with the recent installations of Hoe High-Speed Magazine Presses for

R. R. DONNELLEY & SONS COMPANY
UNITED STATES GOVERNMENT PRINTING OFFICE
JERSEY CITY PRINTING COMPANY
CHARLES SCHWEINLER PRESS, ETC.

Is Convincing Proof of the Continued Leadership of Hoe in the Magazine Press Field.

•

IRVING TRUST COMPANY, RECEIVER IN EQUITY FOR

R. HOE & CO., INC.

GENERAL OFFICES

138th Street and East River, New York City

BOSTON • CHICAGO • SAN FRANCISCO

On-Time Certifieds

No. 3 of a Series of Whys and Wherefores of Certified Dry Mats

Under everyday newspaper conditions, makeready in the pressroom is out of the question. The pressman can only manipulate his ink distribution and adjust his impression cylinder. He is, therefore, dependent upon the stereotype foundry for good printing plates.

Certified Dry Mats reproduce the flat forms as set up in the composing room with true fidelity as to detail. Solids, middletones, and high-lights are reproduced in all their true values, as are line cuts and type matter. The stereotyper is, therefore, able to deliver to the pressman good printing plates day in and day out.

What is more, the stereotype foundry delivers these plates day in and day out on schedule time.

While Certifieds strengthen the link between the composing room and the pressroom, the benefits derived from their use are not confined to these departments alone. The use of Certifieds benefits every department of newspaper operation as well as promotes harmony and cooperation between composing room, stereotype foundry, and pressroom.

We respectfully invite you to try some Certified Dry Mats in your plant under your own working conditions. Samples for such a demonstration will be gladly sent you free of charge and without obligating you in any way.

Better still, we respectfully suggest that you try a case of 500 mats as such a run will enable you to make a thoroughly comparative trial and place you in a position to judge the relative value of Certifieds for your purpose.

We are gladly at your service.

Certified Dry Mat Corporation,
342 Madison Ave.
New York, N. Y.

(Date) _____

Gentlemen:

You may enter our order for prompt shipment of _____ case(s) of Certified Dry Mats as checked below:

Check ☐ 15c Ace mats f.o.b. West Groton, Mass.

Check ☐ 12c Certifieds f.o.b. West Groton, Mass.
(Cases contain 500 mats, 20″ x 24″)

▼ ▼ ▼

Please send samples of ☐ 15c Ace Mats ☐ 12c Certifieds free of charge and without obligation.

Please be sure to check specifications.

THICKNESS
☐ .024/5″
☐ .027/8″
☐ .031/2″
☐ .035/6″

SHRINKAGE
(Mill Moistened)
☐ 1/4″
☐ 3/8″
☐ 1/2″
☐ Unconditioned
Special Size

Name _____ Address _____

By _____ Title _____

feet wide and with good head room. Through this tunnel run steam pipes, electric conduits as well as pneumatic tubes for mail delivery. Upon completion of the new edifice and the moving of all departments into it, the present building will be converted into offices for The Mother Church. As the work of these offices is related closely to that of the Publishing Society, this tunnel will prove most serviceable.

On the exterior of the building are a number of inscriptions in the limestone. Directly over the main entrance on Norway Street are the words: "The Christian Science Publishing Society Founded by Mary Baker Eddy." On the Norway Street side, opposite The Mother Church is the following selection from Psalms:68,1: "The Lord Gave the Word: Great Was the Company of Those that Published It." Along the Massachusetts Avenue end one may read: "To Proclaim the Universal Activity and Availability of Truth. Mary Baker Eddy," while in the tower section appear the following beautiful words on either side of the four corners: "Faith, Hope, Love, Mercy, Justice, Purity, Health, Peace."

The Composition Roller As I Know It

(Continued from page 8)

Rollers are often kept in service long after they have outlived their usefulness. This is false economy as the apparent saving made in rollers is more than lost in increased make-ready time in addition to producing unsatisfactory printing.

There are several types of rollers in use today other than the regular composition rollers, which have been developed for some specific purpose. With rollers, it was necessary to meet the demand of the high-speed newspaper and other rotary presses which often run continuously at from thirty to fifty thousand an hour. During the past few years the roller known as the non-meltable composition roller has been perfected. It is said that these rollers will not run down regardless of the press speed. They can be made soft, or to any degree of firmness, as preferred. The rubber roller after much experimenting, has recently been found to be quite satisfactory for the high-speed newspaper and many other fast rotary presses.

When ordering rollers, consideration should be given for the work they are to perform. Whether a glue and glycerine roller should be used or one made of other materials, depends on the conditions. In some cases using one or the other may be an extravagance.

Composition rollers are made in three grades or kinds of composition, namely, Winter, Mid-Season and Summer. Winter rollers should never harden or toughen. They should remain soft and pliable until worn out. Mid-Season rollers are made to combat the natural cool, moist conditions which exist in the pressrooms during the Spring and Fall seasons.

Composition for Summer rollers contains considerable less glycerine and is naturally dry, as these rollers are for use in hot, humid weather. Heat and humidity are necessary to bring out their best working qualities. If you leave it to your roller maker he will give you the correct composition for the season and your needs.

(Continued on page 20)

1st Prize The New York Times.

2nd Prize Herald NEW YORK Tribune

3rd Prize The Cleveland Press

ALL THREE WINNERS
of the 1933 Francis Wayland Ayer Award
for Best Printed Newspapers

ARE GOODYEAR-EQUIPPED

HERE is eloquent proof that clean, sharp printing and Goodyear press equipment go hand in hand.

The New York Times uses Goodyear Underpacking.

The New York Herald Tribune has 100% Goodyear equipment—Goodyear Rubber Underpacking, Goodyear Felt Blankets and Goodyear Ink Rollers.

The Cleveland Press has 100% equipment of Goodyear Rubber Underpacking.

And a high percentage of other papers which stayed in the running until the final elimination also are Goodyear-equipped.

The popularity of Goodyear equipment is constantly on the increase.

Goodyear Red Top Felt Blankets
Goodyear Rubber Underpacking
Goodyear Rubber Ink Rollers
Goodyear Cutting Rubbers

—all make for better printing and economy in operation. If you wish more information, drop a line to Goodyear, Akron, Ohio, or Los Angeles, California, or call any Goodyear Branch. Goodyear has branches in all principal cities.

THE GREATEST NAME IN RUBBER

GOODYEAR

NOW YOUR PRESSES CAN BE EQUIPPED COMPLETELY WITH GOODYEAR PRODUCTS

He Thought Type Metal Was Just Like Sugar and Salt

NOT so long ago we ran across a front office executive who thought all type metals were alike—staples—like sugar or salt. For this reason he bought type metals from the lowest bidder.

What this front office executive did not know was that type metals vary tremendously. Take Imperial Type Metal, for example. Here is a metal that can be cast at a lower temperature, and saves fuel. It will produce cleaner and sharper impressions and a better looking sheet. Because it has been produced by type metal specialists who manufacture nothing but type metal, it gives a freedom from metal troubles which cause expensive delays.

Any plant that has standardized on Imperial for a number of years will tell you emphatically that Imperial Type Metals make for lower yearly metal costs. If you are one of those who believe that type metal is a staple, and that they are all alike, switch to Imperial. Use it for a year and we are sure that from then on you will

stick to

Imperial
METAL

THE IMPERIAL TYPE METAL CO.
Philadelphia · New York · Chicago · Los Angeles

Rollers, to give the greatest satisfaction, should be ordered in advance. If ordered a month before needed, the printer would not only receive them in good time, but the fresh rollers would have an opportunity to season and give much better results.

Seasoning of rollers is a drying-out or toughening process. There is no rule of time by which rollers should be seasoned. It depends altogether upon the drying conditions of the weather or pressroom. In cold, dry weather, when evaporation is rapid, rollers will season in a day or two. After rollers are properly seasoned but are not to be used at once, they should be covered with a coating of vaseline or machine oil.

The ideal wash-up compound for rollers is plain kerosene oil. They should not be washed with straight benzine, as benzine is an astringent and will dry up and shrink the best roller ever made.

New Manager for Eastern Office

Harold T. Simpson, president of The Printing Machinery Company, Cincinnati, Ohio, has announced the appointment of M. Hugo Lindberg as Eastern manager, with offices in the Printing Crafts Bldg., at 461 Eighth Ave., New York, New York. This announcement followed the resignation of William A. Waas. Mr. Simpson also stated that no change had been made in the Western office, and Ross B. Schuleuter remains as Western manager with offices at 20 West Jackson Boulevard, Chicago.

Activities of A. N. P. A. Mechanical Department

(Continued from page 12)

JOINT COMMITTEE

" . . . A statement was made in the Mechanical Department report a year ago that the Joint Committee on Newspaper Printing was engaged in a study of the methods of reproducing advertising copy in newspapers, and of the copy itself from the standpoint of suitability for reproduction in newspapers. . . . After careful examination of tear sheets obtained from a large number of offices, the Committe unanimously agreed at its last meeting to proceed no further with this project. One reason was that there was no general agreement among the newspapers as to the suitability of the copy for newspaper reproduction. Another, and the chief reason, was that the Committee was of the opinion that the agencies had made further progress with their material than the newspaper had in reproducing it and that it would be hardly fair to go on record as urging the agencies to still further improve their material. It is interesting to note that the meeting which made this decision was attended by six newspaper men and two agency men."

RESUME OF DEPARTMENTAL WORK

Mr. Wines presented a resume of the work of the Department, listing some of the new mechanical devices which had been investigated. He also reports that: "Another planographic mercury process for newspaper printing has appeared in California and has been given preliminary trial by one of the newspapers in that state. Information received concerning this process indicates that it is similar to the Renck and Pantone process. . . . ."

Under the heading: "Miscellaneous Activities," the manager states: "A new survey of type page sizes and paper roll widths was made early in the year. The reports show a decided increase in the percentage of papers using eight 12-em columns. There is a decided drift towards standardization on this page size with some variation in the thickness of the column rules. The six-point rule is still the most popular."

April Printing Patents

Printed copies of patents are furnished by the Patent Office at 10 cents each. These may be obtained by addressing the Commissioner of Patents, Washington, D. C.

1,902,048. MATRIX MATERIAL FOR PRODUCTION OF PRINTING PLATES. Sherman Oswald Thomas, Washington, D. C., assignor to The American Dairy Supply Company, Augusta, Me., a Corporation of Maine. Filed June 18, 1928. Serial No. 286,498. 4 Claims. (Cl. 106 — 1.6.)

4. As a new article of manufacture, a matrix for receiving impressions and suited for use in casting stereotype plates, comprising a plate or sheet bearing upon one face a closely adhering layer or coating consisting of rubber, finely powdered mineral and carbon black, brought to a tenacious wax-like consisteney by mixing with agents which respectively act to facilitate the smooth and even mixing of the solid ingredients and as a solvent for the rubber.

1,902,425. MATRIX CABINET Anthony J. Stouges, Queens Village, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed June 19, 1931. Serial No. 545,381. 19 Claims. (Cl. 276 — 44.)

1. A matrix cabinet including in combination, a frame, a plurality of pairs of brackets supported by the frame and arranged equidistant from one another, a plurality of drawers arranged in the cabinet each supported by a pair of the brackers and adapted to occupy the space between the pair of brackets on which the drawer is supported and an adjacent pair of the brackets, and at least one drawer adapted to be supported by any pair of the brackets and to occupy a space greater than that between the pair of brackets on which the drawer is supported and an adjacent pair of the brackets.

1,902,432. WIPING MECHANISM FOR MATRIX COMPOSING AND LINE CASTING MACHINES. Christian Augustus Albrecht, Berlin, Germany, assignor to Mergenthaler Linotype Company, Brooklyn, N. Y., a Company of New York. Filed Oct. 1, 1931, Serial No. 566,248, and in Germany Oct. 7, 1930. 10 Claims. (Cl. 199 — 62.)

1. Wiping mechanism for matrix composing and line-casting machines, with a common wiper for the mold and trimming knives, characterized by the fact that the wiper is pivotally supported by the mechanism actuating it, and is so controlled, that when moved in one direction, it will be brought into position to effect the wiping of the mold, and when moved in the other direction, will bear against and wipe the knives.

1,902,434. KNIFE WIPER. Harold A. Burt, St. Albans, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed July 21, 1931. Serial No. 552,145. 11 Claims. (Cl. 199 — 62.)

1. In a slug-casting machine, the combination of a line transporter, means for varying the casting position of the transporter, slug trimming knives, means for cleaning the knives, and operative connections between the transporter and the knife cleaning means, the connections including an adjustable element carried by the transporter and arranged to engage a stationary part of the machine whereby the extent of the knife-cleaning action may be kept uniform regardless of the casting position of the transporter.

1,902,443. MATRIX CABINET. Fred C. Grumman, Norwalk, Conn., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed July 8, 1931. Serial No. 549,382. 10 Claims. (Cl. 276 — 44.)

1. A matrix cabinet drawer for storing matrices having ears projecting from the edges, and provided with means for supporting the matrices by their edges in an upright position independent of their projecting ears.

1,902,847. SLUG CASTING MACHINE. Archie V. Gilbert, Spokane, Wash. Filed Mar. 12 1931. Serial No. 522,034. 10 Claims. (Cl. 199 — 50.)

1. In a slug-casting machine, the combination of a pair of opposed, relatively movable jaws, duplex means for operating the jaws, means for rendering one of the jaws inactive, actuating means for the operating means, a justification rod and means carried thereby for co-action with the actuating means in centering the jaws, an elevator slide, and means carried by the slide for co-action with the actuating means in re-setting the jaws.

1,903,038. FELT RUBBER ROLLER. Tokutaro Fujii, Azabu Ku, Tokyo, Japan, assignor to Eijiro Yamamoto, Tokyo, Japan. Filed Sept. 29, 1930. Serial No. 485,333, and in Japan Dec. 10, 1929. 2 Claims. (Cl. 91 — 67.8.)

1. An inking roller comprising a stock, a layer of felt wound around the stock, a layer of spongy rubber on the felt layer, and a tubular felt covering impregnated with vulcanized rubber compound.

1,903,329. METHOD OF PRODUCING LINOTYPE PELLETS FROM LINOTYPE SLUGS. Elmer E. Beard, Olympia, Wash. Filed Nov. 21, 1929. Serial No. 408,775. 6 Claims. (Cl. 83 — 91.)

1. The method of melting used slugs of linotype metal and forming from the molten metal particles of shot-like or pellet form for reuse in the melting pot of the machine, which consists in melting the slugs in a container at a temperature above but close to the melting point of the metal, collecting from the metal the oil and other impurities carried thereby and disposing of it in the form of a coating over the metal to protect it from oxidation during the melting action, and drawing off the molten metal and discharging drops of the same from the container substantially as rapidly as melted into a cooling bath through an air space of restricted depth so as to effect a rapid cooling and hardening of the drops.

1,903,382. FOLDING MECHANISM. Adolph M. Zuckerman, New York, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed Mar. 11, 1932. Serial No. 598,144. 8 Claims. (Cl. 270 — 63.)

8. In a folder, the combination of means for forwarding and associating a plurality of webs at press speed, a pair of folding cylinders operating at press speed and having means for severing the webs into product lengths, a pair of chopping blade folders, a pair of intermediate transfer cylinders acting alternately to transfer products from the folding cylinders to the chopping blade folders, means for driving the transfer cylinders at a lower peripheral speed than the folding cylinders, and means for registering the products for the second fold.

1,903,751. DEVICE FOR FEEDING THE CASTING POTS OF LINOTYPE AND SIMILAR MACHINES WORKING WITH SOFT METALS. Kaspar Bader, Berlin-Grunewald, Germany. Filed June 11, 1931, Serial No. 543,704, and in Germany May 6, 1930. 7 Claims. (Cl. 22 — 80.)

1. A device for feeding molten metal to linotype machines and the like, comprising the combination with a pot for the molten metal, of a supply reservoir carried by the pot and extending into and above a predetermined molten metal level in the pot and closed airtight above the level and having an air inlet opening at the level.

1,903,778. ETCHING PROCESS AND COMPOSITION FOR USE THEREIN. Marcus F. Conroy, Luzerne, Pa., assignor of one-half to Luzerne Motor Company, Luzerne, Pa., a Copartnership consisting of Leo B. Corgan, William F. Corgan, and Michael H. Corgan. Filed Sept. 8, 1930. Serial No. 480,614. 14 Claims. (Cl. 41 — 43.)

1. The process of etching a printing plate or flat, which includes the step of applying a material to the plate after the initial etching to prevent a subsequently applied resist composition from adhering to those portions of the plate which are to be further etched, the material also being adapted to be removed during such subsequent etching.

1,903,804. PRINTER'S REGISTER HOOK. William F. Brugmann, Chicago, Ill. Filed Mar. 31, 1930. Serial No. 440,232. 21 Claims. (Cl. 101 — 388.)

1. A printer's register hook embodying a body portion adapted to be inserted into a groove in a base, separate locking means at the ends of the hook, and means responsive to

BURGESS CHROME MATS

BURGESS QUALITY Again PREDOMINATES

From a study of our records and information (which, to the best of our knowledge is accurate), it is a significant fact, and should be of interest to the newspaper publishers in general, that of the forty-five newspapers, using Dry Mats, out of 1,386 entrants in the three classifications which survived up to the final elimination for the Francis Wayland Ayer Award, twenty-three or 51%, were users of Burgess Chrome Stereotype Mats.

One can appreciate that a mechanical man who takes sufficient pride in the publication of a paper, to enter into a contest of this nature, must be particular in using the products which he believes will give him the best all-around results. Taking this into consideration, isn't it rather a wonderful coincidence that 23 out of the 45 papers using mats, among those of honorable mention, should be using Burgess Chrome Mats in their stereotype department?

If you haven't used Burgess Chrome Mats write us for a sample supply, or better yet, request our representative to call and demonstrate their superior qualities.

BURGESS CELLULOSE COMPANY
Freeport, Illinois

BURGESS CHROME MATS

BURGESS CHROME MATS

BURGESS CHROME MATS

In a Floor Space of less than 400 Square Feet—

WITHIN this space the display composition of the NEW YORK WORLD-TELEGRAM is set with the aid of three Ludlows, according to James S. O'Sullivan, superintendent of the composing room of that important newspaper. Mr. O'Sullivan writes:

"In laying out the composing room in our new building, we were able to save considerable floor space through the compactness of the Ludlow equipment. Our three Ludlow machines and ten cabinets containing two hundred fonts of matrices require only 18x22 feet. This saving of floor space could not have been accomplished with any other system of composition.

"Another feature of the Ludlow system that we like is that the type does not sink under dry mat pressure."

Information regarding the economies the Ludlow system will effect in your composing room awaits your request.

LUDLOW TYPOGRAPH CO.

2032 Clybourn Avenue + Chicago, Ill.

SET IN LUDLOW KARNAK MEDIUM AND LIGHT

t he operation of one of the first means for simultaneously actuating the other of the locking means.

1,903,813. ENGRAVER'S MAT. Arthur B. Glenn, Los Angeles, Calif. Filed Dec. 7, 1927. Serial No. 238,410. 3 Claims. (Cl. 154 — 46.5.)

1. As a new article of manufacture, an engraver's mat capable of being engraved upon, consisting of a backing sheet of paper-board with a coating of shellac, and a facing adhering to the board on the shellacked face and consisting substantially of a composition of magnesium-silicate.

1,903,840. COMBINED INK SETTER AND STATIC ELIMINATOR. Julius Simons, Philadelphia, Pa., assignor to Simcoe Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 29, 1930. Serial No. 424,148. 5 Claims. (Cl. 175 — 264.)

4. An ink setter, comprising a hollow tubular insulator having an insulating partition, a conductor extending through the insulator upon one side and thence reversely upon the opposite side of the partition, independent condenser elements encircling the respective sections of the conductor upon the opposite sides of the partition and having terminal portions extending through the walls of the insulator.

1,903,904. FEEDING DEVICE FOR TYPE-CASTING MACHINES. James Lindsay Ewing and Robin Rudolf Tobias, New Orleans, La. Filed Dec. 5, 1929. Serial No. 411,752. 5 Claims. (Cl. 22 — 80.)

5. A feeding device for type casting machines comprising a frame, a rotatable threaded rod mounted in the frame, a nut connected with the rod, a support for the metal connected with the nut and having an outwardly bent end, the metal being provided with an enlarged opening into which the outwardly bent end is inserted and means for rotating the rod to lower the nut and the metal and a melting pot into which the metal is lowered.

1,904,416. SHEET SEPARATOR FOR PAPER FEEDING MACHINES. Frank L. Cross, Port Washington, N. Y., assignor to Cross Paper Feeder Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 21, 1931. Serial No. 570,125. 8 Claims. (Cl 271 — 21.)

1. The combination with means for imparting a combing separating action to a pile of sheets, and a sheet moving separator element to engage and move the top sheet of the combed pile, of means engaging the combed portion of the pile to hold the combed sheets in combed condition for the action of the sheet moving separator element.

1,904,536. WEB SUPPLYING AND CONTROLLING MECHANISM. Charles J. Richter, Berwyn, Ill., assignor to Goss Printing Press Company, a Corporation of Illinois. Original application filed Mar. 22, 1928, Serial No. 263,624. Divided and this application filed July 26, 1930. Serial No. 470,820. 6 Claims. (Cl. 242 — 58.)

1. A web attaching mechanism including in combination means for rotatively supporting a plurality of web rolls, a roller journaled at either side of a running web, a movable support for both rollers, a movable support for the movable support and additional means for guiding one of the rollers out of contact with the fresh web roll.

1,904,571. WEB RENEWING MECHANISM FOR PRINTING MACHINES. John R. Tomlin, Brooklyn, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 2, 1931. Serial No. 512,871. Renewed May 3, 1932. 35 Claims. (Cl. 242 — 58.)

1. The method of replacing a web running to a printing machine, which comprises, rotating a replacement web roll at a peripheral speed substantially equal to the speed of a web being drawn from an exhausting web roll, depositing an adhesive material on the peripheral surface of the replacement roll while it is being rotated, pressing the web running from the exhausting roll against the adhesive material to cause the end of the web of the replacement roll to adhere to the running web, and severing the web of the exhausting roll.

1,904,581. PRINTERS' QUOIN. Camille Joseph Vion, Jersey City, N. J. Filed Jan. 15 1931. Serial No. 508,928. 4 Claims. (Cl. 254 — 42.)

4. A printers' quoin composed of two relatively movable cooperating members, means for locking the same in a chase, a furniture engaging member in each of the quoin members and means for operating the furniture engaging members into and out of locking engagement with the adjacent furniture in the chase.

1,904,855. BED AND CYLINDER PRINTING PRESS. Calvert B. Cottrell, 3d, Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a Corporation of Delaware. Filed May 7, 1931. Serial No. 535,685. 15 Claims. (Cl. 101 — 278.)

1. In a bed and cylinder printing press, a reciprocating form bed, and an oscillating impression cylinder operable, on each stroke, to print one sheet and deliver a previously printed sheet tail end first.

1,904,870. WEB CONTROLLING MECHANISM. Kenneth G. Layeock, Shavertown, Pa., assignor to Goss Printing Press Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 18, 1930. Serial No. 436,835. 10 Claims. (Cl. 242 — 75.)

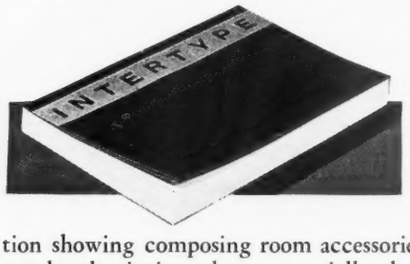
7. Web controlling mechanism including in combination a magazine reel to support active and reserve web rolls, a continuous belt contacting with the active web roll to tension the web drawn therefrom, means for opposing movement of the belt, a pair of rollers between which the belt is threaded and means for revolving the rollers to take up slack in the belt.

1,904,878. MACHINE FOR HANDLING STRIP MATERIAL. Adolph Potdevin, Garden City, N. Y., assignor to Potdevin Machine Company, Brooklyn, N. Y., a Corporation of New York. Filed Aug. 19, 1930. Serial No. 476,372. 12 Claims. (Cl. 242 — 58.)

1. In a machine for handling strip material, the combination of a support or stand for a roll of the material, a pair of arms pivoted on the stand or support, bearings carried by the arms, and worm and gear mechanism for rotating the arms to bring the bearings beneath the supply roll, continued rotation of the arms lifting the roll out of its original position into a new position for rotation, while continuing the operation of withdrawing material from the roll.

Intertype Publishes New Book

Intertype Corporation is distributing to users of Intertype products a new book which shows a complete list of parts, supplies and accessories carried in stock. This book consists of 365 pages. It shows numbered illustrations of all Intertype parts with corresponding descriptions and a twenty-page numerical index, so that any wanted part can be located quickly. Another feature is an illustrated section showing composing room accessories needed in all well regulated printing plants, especially those using composing machines. It is also an excellent example of all-slug composition.



This book will be supplied free, upon request, by Intertype Corporation, 360 Furman Street, Brooklyn, or any of its five branch offices.

The Latest Printing Equipment Mechanisms

Intertype Adopts New Matrix Delivery Belt

Intertype is now equipping all machines with a new-style delivery belt. This belt is made of a woven rubberized fabric. Among the advantages claimed by Intertype for this new fabric belt are (1) It lasts longer; (2) It runs straight; (3) It does not fray at the edges; (4) It does not stretch; (5) It is uniform in thickness, and (6) It has a better appearance.

Before adopting this new delivery belt for general use on its machines, Intertype subjected it to strenuous and lengthy practical tests and it is now recommended as a substantial help toward the accurate assembling of matrices.

Wright Automatic Drill Slotter

The Wright new open frame Automatic Drill Slotter, a product of Harris-Seybold-Potter Company, Seybold Machine Company Division, Dayton, Ohio, is equipped with an automatic table clamp operated by a table lift mechanism, which holds the work continuously throughout the drilling and slotting operations.

Front View of Wright Drill Slotter

Operation is as follows: The operator places the work on the table, starts the machine by the foot treadle which causes the clamp to automatically depress to grip the work which is then drilled. Then the table automatically moves to the slotting position. After slotting, the table returns to its original position, the automatic clamp releasing, and the machine stopping in readiness for a new operation.

The table movement has five positions—continuous, jog, stop at bottom, stop at top for setting drills, and for drilling only. Brakes are provided to stop the machine. Table adjustment provides for wear of drills. Chip disposal from both the drilling and the slotting operations is automatic.

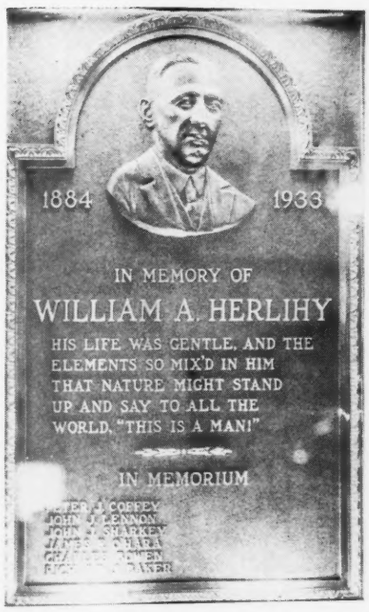
The time of stroke to drill and slot is six seconds. The time to drill only is three seconds. It can be easily and readily converted into a drilling machine by simply shifting a screw stud and locking the table. Side gauge may be used either right or left. Belts and gears are guarded. Each drill head is adjustable independently.

Johnson Variable Reducer

After four years of developmental work, by its engineering staff, officials of The Smith Power Transmission Co., Penton Bldg., Cleveland, Ohio, now announce the completed Johnson Variable Reducer, which was designed to meet a need for a wide variety of industries. This is a variable speed reducer, is self-contained and runs in a bath of oil. It will give infinite speed control from zero to any desired speed, employing a control that is visible and quickly manipulated. The unit stops instantly when desired, as it has no high speed inertia to overcome. It is strictly a mechanical device as it does not operate under sliding or rolling friction.

(Continued on page 24)

Herlihy Tablet Dedicated


1884
1933
IN MEMORY OF
WILLIAM A. HERLIHY
HIS LIFE WAS GENTLE, AND THE ELEMENTS SO MIX'D IN HIM THAT NATURE MIGHT STAND UP AND SAY TO ALL THE WORLD, "THIS IS A MAN!"
IN MEMORIUM

A tablet to the memory of William A. Herlihy was unveiled on April 27 with suitable ceremonies in the pressroom of the New York Daily *News* before an assemblage of pressroom employees, officials of the company, other *News* employees and visitors.

The occasion for installing the tablet was brought about by the death of William A. Herlihy, superintendent of the Daily *News* pressroom. After his death, pressroom employees requested permission from the management to install the tablet, which is to be perpetually illuminated by indirect lighting.

The tablet was dedicated by Major George L. Berry, president of the International Printing Pressmen and Assistants' Union of North America, who came to New York especially for the purpose. E. J. Duffy, mechanical superintendent of the *News*, assisted in program arrangements.

The Superintendent Of A Certain Plant Was Offered

two makes of Spacebands at a difference in price of 15 cents each. He, unhesitatingly chose the cheaper make. The two samples appeared very much alike.

Unfortunately for the buyer, the cheaper band was found unsatisfactory in service. The 15% saving in first cost became an 85% loss, plus the cost of time wasted on the part of the machinists and operators.

You can protect yourself against a similar experience by buying "STAR" Spacebands. These are so uniformly accurate that *wedges and sleeves are interchangeable.* Moreover, they are the only bands that have the patented eccentric Stop Pins, that make sleeve changing so easy. Sleeves for all five sizes sold at 45 cents each.

Medium Thick—Extra Thick—Thin—Extra Thin—Special (Teletypesetter)

●

LINOTYPE PARTS CORPORATION

NEW YORK
270 Lafayette Street

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314 West 10th Street

Agencies:

CHICAGO
318 West Randolph Street

LOS ANGELES
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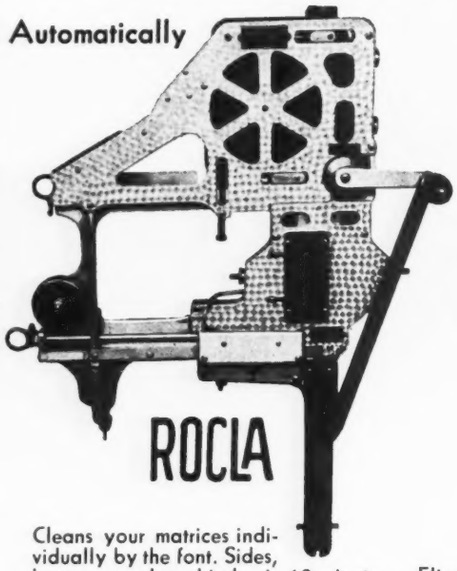
HERE IT IS . . .

THE "ROCLA"

Automatically Pays for Itself



Patented U.S. and Canada

Cleans your matrices individually by the font. Sides, bottoms, teeth and index in 10 minutes. Eliminating hair lines, spongy justification, and transpositions. Increases your production 20 per cent.

AGENTS WANTED

THE CARL-BURT COMPANY

8526 TIREMAN AVENUE DETROIT, MICH.

Hacker Type Gauge
for Height

Hacker Slug Gauge
for Thickness

More Accurate Lino-Slugs

Line cast type slugs of uneven *height* (1) limit the use of stereotyping, (2) increase finishing time in electrotyping, (3) cause press makeready.

Line cast type slugs of uneven *thickness* (1) require much justification, (2) get off their feet in molding, (3) cause press work-ups.

Better inspection gives better slugs. These two instruments measure slugs more rapidly and dependably than a micrometer.

They require no skill to use. They invite use. More frequent checking invariably gives more accurate slugs.

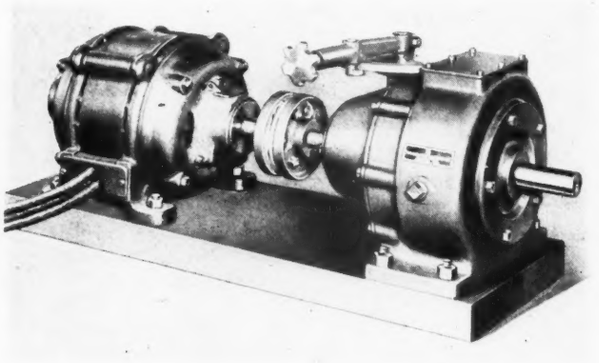
Try them for 10 days. Ship them back or send $45.00 for each.

These two Gauges should be in every linotype room.

HACKER MANUFACTURING CO.

320 SOUTH HONORE STREET CHICAGO

The unit is composed of five one-way, over-running clutches, the five clutches transmitting their power in uniform cycles to a centrally-mounted driven gear. The driven gear is mounted on a hardened and ground output shaft which in turn is mounted on two large ball bearings, making it pos-



sible to take the drive from the output shaft either with a coupling, sprocket and chain, or any available type of drive.

The capacity of the unit ranges from 1 h.p. up.

The output speed ranges from 0 to 240 r.p.m. For ranges above 240 r.p.m. a step-up drive may be used on the output shaft.

Second Elevator and Distributor Box Bars

The Linotype Parts Corporation, 203 LaFayette St., New York, New York, is furnishing new style Second Elevator and Distributor Box Bars for replacement purposes on line-casting machines. The bars are distinguished by a three-step joint instead of the usual seven-tooth off-set joint. The ends

of the bars are also tapered at the joint where they meet so that there can be no binding of one bar against the other in case of a close end-to-end fit when the second elevator descends to transfer. Likewise, it is claimed, that if the bars are closely fitted when in normal position, the second elevator bar cannot rake the lower teeth at the end of the distributor box bar if either of these bars is slightly out of proper position. The point of the distributor box bar at the distributing end is featured by an eccentric screw fastening, instead of pins, to hold the point in its slot. Further information may be obtained from the Linotype Parts Corporation.

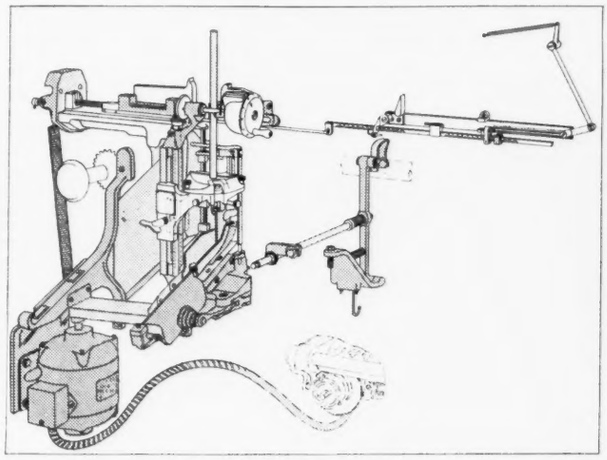
New Model D Mohr Lino-Saw

It is announced that the Mergenthaler Linotype Co. has been appointed selling agent for the new Model D Mohr Lino-Saw, manufactured by the Mohr Lino-Saw Co., 609-13 West Lake St., Chicago, Ill.

The Mohr Lino-Saw attaches to the vise frame of line-casting machines and automatically saws each slug to the required measure as it is ejected from the mold and trimming knives. Thirty-em mold liners are used in order to avoid changes for different lengths of composition. Turning a micrometer dial changes the assembler, vise jaw and saw measures simultaneously. Any measure less than 30 ems may be obtained by points or fractional points if desired.

The Model D. saw functions in like manner to the earlier models except that its mechanism has been greatly improved. The improvements are as follows: (1) The Model D is pow-

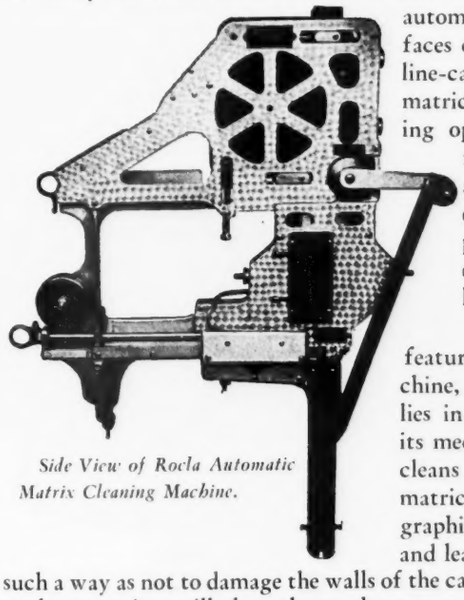
ered by individual ⅛ h.p. motor, mounted below the galley. The same switch starts and stops both the linotype and the saw; (2) The ejecting of the slug and the jogging of the slugs in the galley are performed as heretofore, but the motions required are secured from a special cam on the main cam shaft of the linotype; (3) A new end bracket for the



vise cap, with associated parts, prevents variations in length of type face on the same measure caused by the varying force exerted on lines with one or many spacebands; (4) The left-hand side-trimming knife screws of the linotype can be reached for adjustment from the front of the linotype without removing the saw mechanism; (5) The Model D embraces also the improvements that have been made in its predecessor, Model C, including improved type-end delivery, improved waste-end ejection, long-wearing saw blade, improved drive belts, etc.

Rocla Automatic Matrix Cleaner

The Rocla Products Co., 8526 Tireman Ave., Detroit, Mich., is introducing into the United States and Canada from Germany the Rocla Matrix Cleaner which will clean and dry automatically all surfaces of a full set of line-casting machine matrices in one working operation in 10 minutes' time and deliver each matrix properly stacked in an orderly manner.



Side View of Rocla Automatic Matrix Cleaning Machine.

The unusual feature of this machine, it is claimed, lies in the design of its mechanism which cleans the sides of the matrices free of graphite, gum, oil and lead adhesions in such a way as not to damage the walls of the casting cells, and at the same time will clean the tooth recesses, bottoms, casting and reference portions of each matrix.

In operation, a stack of matrices is placed in the bottom of the machine after pulling out a spring roll. As the crank is turned, the matrices pass through the machine and are assembled in a row at the top, from which point they may be lifted after cleaning.

The cleaning mechanism consists of adjustable and flexible brushes which exert an equal pressure upon thick and thin

Kork-O-Tan
REG. U. S. PAT. OFF.
NEWS BULLETIN

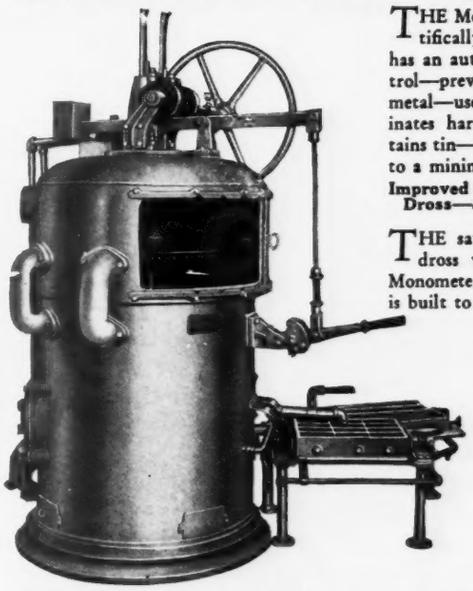
TROY, N. Y. BEHR-MANNING OF THIS CITY HAVE SOLVED THE PROBLEM OF CUTTING DOWN THE COST OF PRESS BLANKETS WITH THEIR KORK-O-TAN FOR BOTTOM PACKINGS MANY PRESSROOMS IN VARIOUS PARTS OF THE COUNTRY ARE GETTING FIRST CLASS PRINTING AND ARE CUTTING THEIR UNDERPACKING BILLS IN HALF WITH KORK-O-TANS SEE THEIR MR. E. W. JONES AT THE MECH. DIVISION CONFERENCE FOR SAMPLES AND INFORMATION OR WRITE DIRECT TO BEHR-MANNING CORP. TROY, N. Y. U. S. A.

Every Newspaper Plant
can profitably install
Monarch Monometer
RE-MELTING FURNACE
Operated with Electricity Gas or Oil

THE Monometer is scientifically constructed. It has an automatic heat control—prevents burning of metal—uses less gas—eliminates harmful fumes—retains tin—and reduces dross to a minimum.

Improved Metal—Reduced Dross—Saving in Fuel

THE saving in fuel and dross will pay cost of Monometer in one year. It is built to last a lifetime.



Write for Catalog P. E. L.

The Monarch Engineering & Mfg. Co.
701-702 American Bldg., Baltimore, Md., U. S. A.
Works, Curtis Bay, Md.

Columbian Inks

For fine printing of

Newspapers
Magazines
Books
Box Board
Paper Bags
Cloth Bags

And other mediums

BLACKS AND COLORS

THE L. MARTIN COMPANY

Arthur S. Thompson, Manager

45 EAST 42ND STREET NEW YORK CITY

"LIBITE" Type Cleaner

is unequaled in efficiency for removing ink and other accumulations from type forms, plate base, electros, halftones, ink fountains and for all general washup purposes—It actually excells in efficiency and we'll send a trial can to prove it.

Perfection Mat Cleaner

An instantaneous, harmless cleaner for Linotype mats, keyboard cams, etc. Does not effect metal accumulations on side walls. Cleaning is accomplished in a few minute's time—No rubbing or polishing. A trial if you wish.

PERFECTION TYPE, Inc., 700 Manhattan Bldg., St. Paul, Minn.

Miller Saw Blades TRUED, SWAGED and SHARPENED

50 cents each. New 6-inch blades $2.90 each.

Fiber pinions for all Linotype or Intertype motors, any size, any kind of gears made to order. General repairing of molds, special molds made to order.

WILLIAM REID & CO. 537 So. La Salle Street CHICAGO, ILL.

Squibb Now President of Godfrey

It has been announced that William P. Squibb has been elected president of the Godfrey Roller Co., 211-15 No. Camac St., Philadelphia. Mr. Squibb succeeds the late William C. Squibb and he was elected on March 29. No change in company policies are anticipated.

Carl-Burt Company Formed

Burt S. Burnett has been made president of a newly-formed organization, The Carl-Burt Company, Detroit, Mich. The company will handle line-casting machine accessories such as the Rocla Matrix Cleaner, a spaceband polishing machine, offset presses, automatic feeders.

Catalogs, Books and Bulletins

Readers of PRINTING EQUIPMENT ENGINEER who are interested in securing any of the catalogs, books or bulletins listed below can do so by checking the literature desired. Mark carefully only that literature which you wish to receive. Fill out the coupon and send it to us. The literature will be forwarded without cost except where noted.

The New Junior Former—Three-page folder describing a new stereotype dry mat forming machine for the smaller city newspaper.

Le Mercure—Folder demonstrating use of Le Mercure type face in combination with other type faces.

Reduce Makeup Cost—Sixteen-page, illustrated booklet telling about the new Model D Mohr Lino-Saw.

Automatic Drill Slotter—Folder illustrating and describing power tool for drilling and slotting loose leaf system paper.

Printing Equipment Engineer,
1370 Ontario St., Cleveland, Ohio.

Gentlemen: Please send the literature checked above without obligation.

Name of Company _____

Attention of _____

Position _____ Dept. _____

Street Address _____

City _____ State _____

matrices. These brushes practically perform all the cleaning duties. Felt runners act as conveyor and dryer of matrices as they pass through the machine. The non-explosive cleansing liquid runs continuously during the cleaning operation, afterwards flowing into a special tank. The liquid may be used repeatedly as there is a cleaning strainer in the top of the tank which may be removed in order to dispose of the sediment taken from the matrices.

The machine is operated by a hand crank and weighs 22 lbs. It may be clamped to a work bench and occupies a space approximately 20 in. x 28 in. x 6 in. All working parts are made of tooled cast aluminum, brass or nickel-plated steel and are rust-proof.

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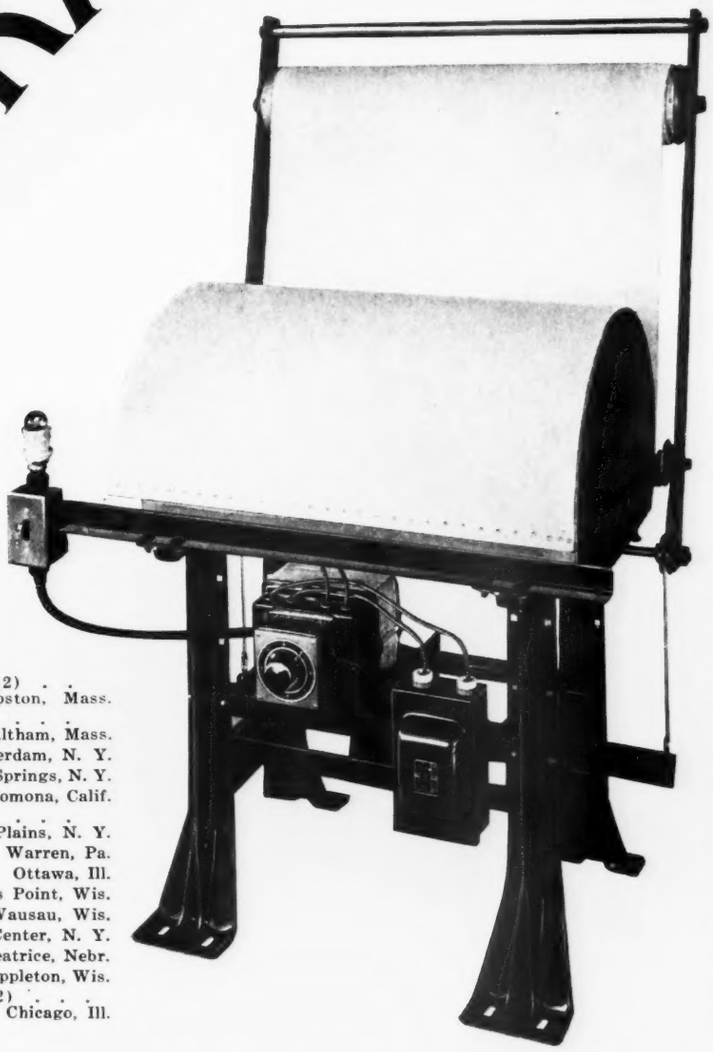
FORM-O-SCORCH



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Republican Times . . . Ottawa, Ill.
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Times-Dispatch . . Richmond, Va.
Montreal Star . . . . . Montreal, P. Q., Canada
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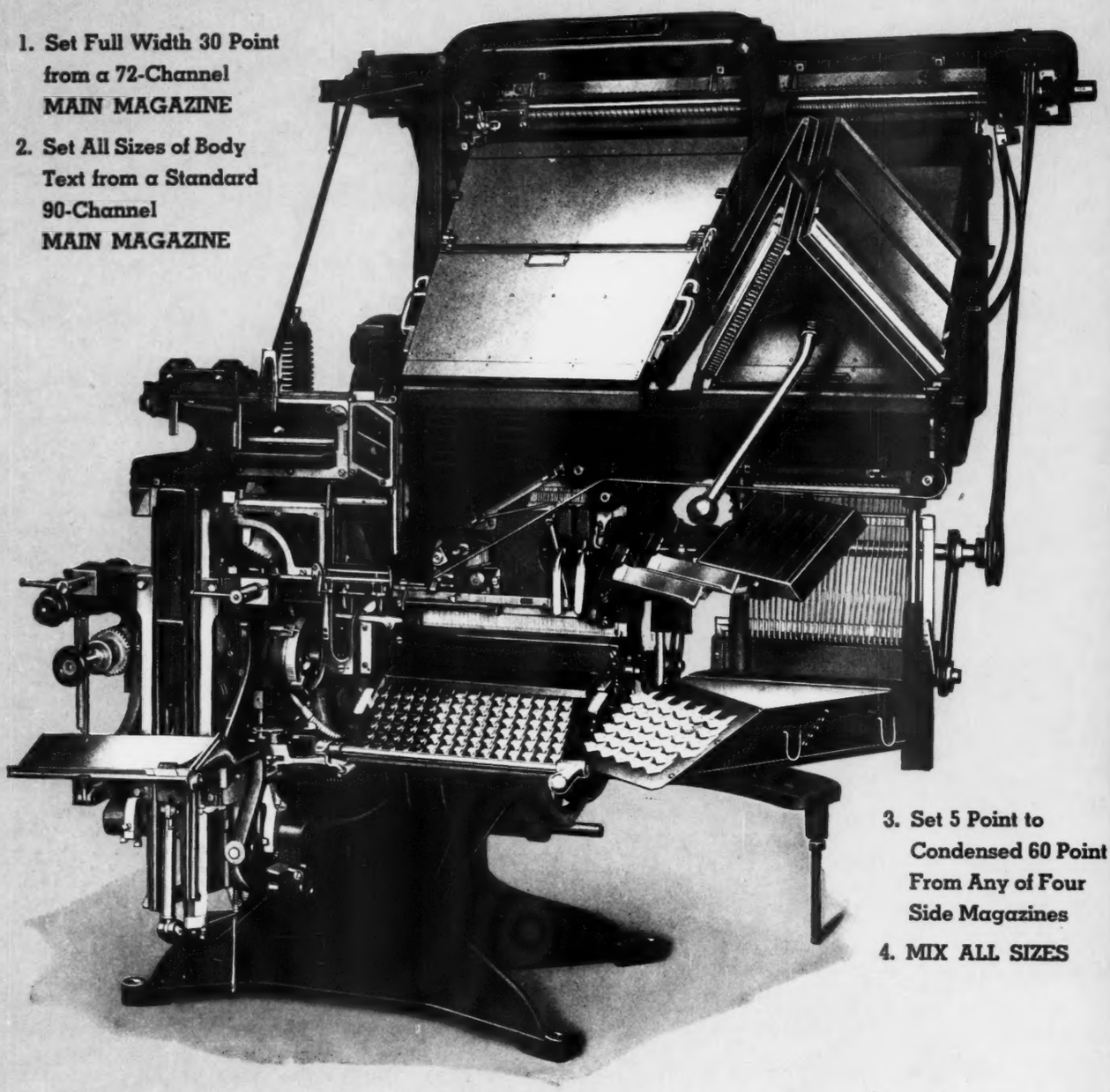

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